

MEDICAL LABORATORY EVALUATION

PARTICIPANT SUMMARY

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Chemistry
2020 MLE-M2



Total Commitment to Education and Service
Provided by ACP, Inc.

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Hemoglobin	7	Vitamin B12.....	110
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EVALUATION CRITERIA

For quantitative procedures, a mean and standard deviation (SD) are calculated for each peer group. Acceptable performance is established on a target value mean \pm the limits listed below.

Acetaminophen	$\pm 20\%$	Lactate (Lactic Acid)	± 0.4 mmol/L or 3 SD *
Acetone	80% Consensus	LDL Cholesterol	± 2 SD or 30% *
Albumin	$\pm 10\%$	Lipase	$\pm 30\%$
Alcohol	$\pm 25\%$	LH	± 2 SD or 20% *
Alpha-fetoprotein	± 3 SD	Lithium	± 0.3 mmol/L or 20% *
Alkaline Phosphatase	$\pm 30\%$	Magnesium	$\pm 25\%$
ALT (SGPT)	$\pm 20\%$	Myoglobin	± 2 SD or 30% *
Ammonia	± 2 SD or 5% *	NT-proBNP	± 2 SD or 25% *
Amylase	$\pm 30\%$	Parathyroid Hormone, Intact	± 2 SD
Apolipoprotein A1	$\pm 30\%$	Phenobarbital	$\pm 20\%$
Apolipoprotein B	$\pm 30\%$	Phenytoin	$\pm 25\%$
AST (SGOT)	$\pm 20\%$	Phosphorus	± 0.3 mg/dL or 10.7% *
B-Type Natriuretic Peptide (BNP)	± 2 SD or 25% *	Potassium	± 0.5 mmol/L
Beta-2 Microglobulin	± 3 SD	Prealbumin	$\pm 25\%$
Bilirubin, Direct	± 2 SD	Progesterone	$\pm 30\%$
Bilirubin, Total	± 0.4 mg/dL or 20% *	Prolactin	± 3.6 ng/mL or 30% *
Bilirubin, Neonatal (Total)	± 0.4 mg/dL or 20% *	Protein, Total (Serum)	$\pm 10\%$
C-Peptide	± 2 SD	Protein, Total (Urine)	$\pm 44\%$
CA 125	± 2 SD or 30% *	PSA	± 0.9 ng/mL or 30% *
CA 15-3	± 2 SD or 30% *	PSA, Free	± 0.9 ng/mL or 30% *
CA 19-9	± 2 SD or 30% *	pCO ₂	± 5 mmHg or 8% *
CA 27/29	± 2 SD or 30% *	pH	± 0.04
Calcium	± 1.0 mg/dL	pO ₂	± 3 SD
Calcium, Ionized	± 3 SD	Salicylate	$\pm 20\%$
Carbamazepine	$\pm 25\%$	SHBG	± 3 SD
CEA	± 1.2 ng/mL 30%	Sodium	± 4.0 mmol/L
Chloride	$\pm 5\%$	T ₃ Uptake (% Uptake)	± 3 SD
Cholesterol	$\pm 10\%$	T ₃ , Free	± 3 SD
CK-MB (Quantitative)	± 3 SD	T ₄ , Free	± 3 SD
CO ₂	$\pm 20\%$	tCO ₂	$\pm 20\%$
Cortisol	$\pm 25\%$	Testosterone	$\pm 30\%$
Creatine Kinase	$\pm 30\%$	Testosterone, Bioavailable	± 3 SD
Creatinine (Serum)	± 0.3 mg/dL or 15% *	Testosterone, Free	± 3 SD
Creatinine (Urine)	$\pm 17\%$	Theophylline	$\pm 25\%$
D-Dimer	± 2 SD or 30% *	Thyroglobulin	± 2 SD
DHEA-S	$\pm 30\%$	Thyroglobulin Antibody	± 3 SD
Digoxin	± 0.2 mg/dL or 20% *	Thyroid Peroxidase Antibody (TPO)	± 3 SD
Estradiol	± 2 SD	Thyroxine, Total T ₄	± 1.0 μ g/dL or 20% *
Ferritin	$\pm 30\%$	TIBC	± 2 SD or 20% *
Folate	± 1.0 ng/mL or 30% *	Transferrin	$\pm 10\%$
FSH	$\pm 25\%$	Triglyceride	$\pm 25\%$
Gentamicin	$\pm 25\%$	Triiodothyronine, Total T ₃	± 3 SD
GGT	± 2 SD or 20% *	Troponin I	± 2 SD or 30% *
Glucose, Serum	± 6 mg/dL or 10% *	Troponin T	± 2 SD or 30% *
Glucose, Whole Blood	± 12 mg/dL or 20% *	TSH	± 3 SD
Glycohemoglobin	$\pm 5\%$	UIBC	± 2 SD or 20% *
HDL Cholesterol	$\pm 30\%$	Urea Nitrogen	± 2.0 mg/dL or 9% *
HCG, Serum—Qualitative	80% Consensus	Uric Acid	$\pm 17\%$
HCG, Serum—Quantitative	± 3 SD	Urine Drug Screen	80% Consensus
Hematocrit	$\pm 6\%$	Valproic Acid	$\pm 25\%$
Hemoglobin	$\pm 7\%$	Vancomycin	$\pm 25\%$
Homocysteine	$\pm 30\%$	Vitamin B ₁₂	$\pm 30\%$
Insulin	± 2 SD	Vitamin D	± 2 SD
Iron	$\pm 20\%$		
Lactate Dehydrogenase	$\pm 20\%$		

*Whichever is greater

Sodium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	145.4	2.6	1.8	145	141 - 150	102	168.6	0.5	0.3	169	164 - 173
All i-STAT Instruments	102	145.4	2.6	1.8	145	141 - 150	102	168.6	0.5	0.3	169	164 - 173
i-STAT - moderate	74	145.1	0.5	0.3	145	141 - 150	74	168.6	0.5	0.3	169	164 - 173
i-STAT - waived	27	145.3	0.7	0.5	145	141 - 150	28	168.7	0.6	0.4	169	164 - 173

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	147.4	0.5	0.4	147	143 - 152	92	125.1	0.4	0.3	125	121 - 130
All i-STAT Instruments	94	147.4	0.5	0.4	147	143 - 152	92	125.1	0.4	0.3	125	121 - 130
i-STAT - moderate	75	147.3	0.5	0.4	147	143 - 152	75	125.1	0.4	0.3	125	121 - 130
i-STAT - waived	19	147.4	0.5	0.3	147	143 - 152	18	125.3	0.7	0.5	125	121 - 130

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	145.1	0.4	0.3	145	141 - 150
All i-STAT Instruments	92	145.1	0.4	0.3	145	141 - 150
i-STAT - moderate	74	145.0	0.3	0.2	145	141 - 150
i-STAT - waived	19	145.3	0.7	0.5	145	141 - 150

Potassium (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	6.10	0.03	0.6	6.1	5.6 - 6.6	100	6.49	0.04	0.6	6.5	5.9 - 7.0
All i-STAT Instruments	103	6.10	0.03	0.6	6.1	5.6 - 6.6	100	6.49	0.04	0.6	6.5	5.9 - 7.0
i-STAT - moderate	70	6.10	0.01	0.0	6.1	5.6 - 6.6	72	6.49	0.03	0.5	6.5	5.9 - 7.0
i-STAT - waived	29	6.09	0.05	0.9	6.1	5.5 - 6.6	29	6.49	0.04	0.7	6.5	5.9 - 7.0

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	4.22	0.04	0.9	4.2	3.7 - 4.8	87	2.80	0.01	0.0	2.8	2.3 - 3.3
All i-STAT Instruments	94	4.22	0.04	0.9	4.2	3.7 - 4.8	87	2.80	0.01	0.0	2.8	2.3 - 3.3
i-STAT - moderate	74	4.22	0.04	1.0	4.2	3.7 - 4.8	71	2.80	0.01	0.0	2.8	2.3 - 3.3
i-STAT - waived	20	4.22	0.04	0.9	4.2	3.7 - 4.8	20	2.79	0.04	1.6	2.8	2.2 - 3.3

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	88	6.10	0.01	0.0	6.1	5.6 - 6.6
All i-STAT Instruments	88	6.10	0.01	0.0	6.1	5.6 - 6.6
i-STAT - moderate	71	6.10	0.01	0.0	6.1	5.6 - 6.6
i-STAT - waived	20	6.12	0.04	0.6	6.1	5.6 - 6.7

Chloride (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	102	103.3	0.5	0.5	103	98 - 109	102	115.8	0.7	0.6	116	110 - 122
All i-STAT Instruments	102	103.3	0.5	0.5	103	98 - 109	102	115.8	0.7	0.6	116	110 - 122
i-STAT - moderate	74	103.3	0.5	0.5	103	98 - 109	73	115.9	0.6	0.5	116	110 - 122
i-STAT - waived	28	103.3	0.5	0.5	103	98 - 109	28	115.6	0.8	0.7	116	109 - 122

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	84.8	0.5	0.6	85	80 - 90	92	75.1	0.6	0.8	75	71 - 79
All i-STAT Instruments	91	84.8	0.5	0.6	85	80 - 90	92	75.1	0.6	0.8	75	71 - 79
i-STAT - moderate	74	84.8	0.5	0.6	85	80 - 90	75	75.1	0.6	0.7	75	71 - 79
i-STAT - waived	19	84.9	0.8	0.9	85	80 - 90	19	75.4	1.0	1.3	75	71 - 80

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	103.1	0.6	0.6	103	97 - 109
All i-STAT Instruments	93	103.1	0.6	0.6	103	97 - 109
i-STAT - moderate	75	103.2	0.6	0.6	103	98 - 109
i-STAT - waived	18	102.9	0.6	0.6	103	97 - 109

tCO₂ (mmol/L)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	98	16.9	0.7	4.2	17	13 - 21	98	23.4	1.0	4.2	23	18 - 29
All i-STAT Instruments	98	16.9	0.7	4.2	17	13 - 21	98	23.4	1.0	4.2	23	18 - 29
i-STAT - moderate	73	16.9	0.7	4.2	17	13 - 21	72	23.5	0.9	4.0	24	18 - 29
i-STAT - waived	25	16.9	0.7	4.3	17	13 - 21	26	23.0	1.0	4.5	23	18 - 28

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	20.6	0.9	4.2	21	16 - 25	87	23.7	0.8	3.2	24	18 - 29
All i-STAT Instruments	91	20.6	0.9	4.2	21	16 - 25	87	23.7	0.8	3.2	24	18 - 29
i-STAT - moderate	73	20.6	0.9	4.5	21	16 - 25	71	23.7	0.8	3.3	24	18 - 29
i-STAT - waived	18	20.4	0.5	2.5	20	16 - 25	18	23.4	1.2	5.3	24	18 - 29

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	90	16.9	0.7	4.0	17	13 - 21
All i-STAT Instruments	90	16.9	0.7	4.0	17	13 - 21
i-STAT - moderate	73	16.9	0.7	4.1	17	13 - 21
i-STAT - waived	17	16.9	0.6	3.6	17	13 - 21

Urea Nitrogen (BUN) (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	101	21.0	0.4	1.9	21	19 - 24	92	16.0	0.1	0.0	16	14 - 18
All i-STAT Instruments	101	21.0	0.4	1.9	21	19 - 24	92	16.0	0.1	0.0	16	14 - 18
i-STAT - moderate	72	21.0	0.4	1.7	21	19 - 24	67	16.0	0.1	0.0	16	14 - 18
i-STAT - waived	29	21.1	0.5	2.3	21	19 - 24	29	16.1	0.4	2.3	16	14 - 19

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	36.2	0.7	2.1	36	32 - 40	92	66.3	1.2	1.8	66	60 - 73
All i-STAT Instruments	93	36.2	0.7	2.1	36	32 - 40	92	66.3	1.2	1.8	66	60 - 73
i-STAT - moderate	73	36.2	0.8	2.2	36	32 - 40	73	66.2	1.2	1.8	66	60 - 73
i-STAT - waived	20	36.1	0.4	1.2	36	32 - 40	20	66.2	1.5	2.2	66	60 - 73

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	92	21.1	0.4	1.9	21	19 - 24
All i-STAT Instruments	92	21.1	0.4	1.9	21	19 - 24
i-STAT - moderate	72	21.1	0.4	1.9	21	19 - 24
i-STAT - waived	20	21.2	0.4	1.7	21	19 - 24

Glucose (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	103	85.8	1.0	1.2	86	77 - 95	103	76.0	1.1	1.4	76	68 - 84
All i-STAT Instruments	103	85.8	1.0	1.2	86	77 - 95	103	76.0	1.1	1.4	76	68 - 84
i-STAT - moderate	72	86.0	0.9	1.1	86	77 - 95	73	76.0	1.0	1.4	76	68 - 84
i-STAT - waived	30	85.5	1.0	1.2	86	76 - 95	30	76.0	1.2	1.6	76	68 - 84

<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	131.0	1.5	1.1	131	117 - 145	94	178.1	1.9	1.1	178	160 - 196
All i-STAT Instruments	94	131.0	1.5	1.1	131	117 - 145	94	178.1	1.9	1.1	178	160 - 196
i-STAT - moderate	73	131.1	1.4	1.1	131	117 - 145	73	178.2	1.9	1.1	178	160 - 196
i-STAT - waived	21	130.8	1.7	1.3	131	117 - 144	21	177.9	1.9	1.1	178	160 - 196

<u>Instrument</u>	Specimen IST-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	85.7	1.1	1.3	86	77 - 95
All i-STAT Instruments	94	85.7	1.1	1.3	86	77 - 95
i-STAT - moderate	73	85.7	1.1	1.3	86	77 - 95
i-STAT - waived	21	85.6	1.0	1.2	86	77 - 95

Hematocrit (percent)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	25.5	0.9	3.4	25	23 - 28	22	29.3	1.0	3.4	29	27 - 32
All i-STAT Instruments	21	25.5	0.9	3.4	25	23 - 28	22	29.3	1.0	3.4	29	27 - 32
i-STAT - moderate	7	25.1	0.4	1.5	25	23 - 27	7	29.0	0.1	0.0	29	27 - 31
i-STAT - waived	14	25.6	1.0	3.9	26	24 - 28	15	29.5	1.2	4.0	29	27 - 32
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	35.2	0.4	1.1	35	33 - 38	13	20.5	0.5	2.5	21	19 - 22
All i-STAT Instruments	13	35.2	0.4	1.1	35	33 - 38	13	20.5	0.5	2.5	21	19 - 22
i-STAT - moderate	7	35.3	0.5	1.4	35	33 - 38	7	20.7	0.5	2.4	21	19 - 22
i-STAT - waived	6	35.0	0.1	0.0	35	32 - 38	6	20.3	0.5	2.5	20	19 - 22
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	25.0	0.1	0.0	25	23 - 27						
All i-STAT Instruments	12	25.0	0.1	0.0	25	23 - 27						
i-STAT - moderate	7	25.1	0.4	1.5	25	23 - 27						
i-STAT - waived	6	25.0	0.1	0.0	25	23 - 27						

Hemoglobin (g/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	8.66	0.29	3.3	8.5	8.0 - 9.3	22	9.99	0.32	3.2	9.9	9.2 - 10.7
All i-STAT Instruments	21	8.66	0.29	3.3	8.5	8.0 - 9.3	22	9.99	0.32	3.2	9.9	9.2 - 10.7
i-STAT - moderate	7	8.54	0.11	1.3	8.5	7.9 - 9.2	7	9.90	0.01	0.0	9.9	9.2 - 10.6
i-STAT - waived	14	8.71	0.33	3.8	8.8	8.1 - 9.4	15	10.03	0.38	3.8	9.9	9.3 - 10.8
<u>Instrument</u>	Specimen IST-8						Specimen IST-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	11.95	0.11	0.9	11.9	11.1 - 12.8	13	6.96	0.16	2.2	7.1	6.4 - 7.5
All i-STAT Instruments	13	11.95	0.11	0.9	11.9	11.1 - 12.8	13	6.96	0.16	2.2	7.1	6.4 - 7.5
i-STAT - moderate	7	11.99	0.15	1.2	11.9	11.1 - 12.9	7	7.01	0.15	2.1	7.1	6.5 - 7.6
i-STAT - waived	6	11.90	0.01	0.0	11.9	11.0 - 12.8	6	6.90	0.15	2.2	6.8	6.4 - 7.4
<u>Instrument</u>	Specimen IST-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	8.50	0.01	0.0	8.5	7.9 - 9.1						
All i-STAT Instruments	12	8.50	0.01	0.0	8.5	7.9 - 9.1						
i-STAT - moderate	7	8.54	0.11	1.3	8.5	7.9 - 9.2						
i-STAT - waived	6	8.50	0.01	0.0	8.5	7.9 - 9.1						

Creatinine (mg/dL)

<u>Instrument</u>	Specimen IST-6						Specimen IST-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	111	1.09	0.04	4.0	1.1	0.7 - 1.4	111	0.74	0.05	6.6	0.7	0.4 - 1.1
All i-STAT Instruments	111	1.09	0.04	4.0	1.1	0.7 - 1.4	111	0.74	0.05	6.6	0.7	0.4 - 1.1
i-STAT - moderate	70	1.09	0.05	4.2	1.1	0.7 - 1.4	70	0.74	0.05	6.6	0.7	0.4 - 1.1
i-STAT - waived	41	1.09	0.04	3.7	1.1	0.7 - 1.4	41	0.74	0.05	6.7	0.7	0.4 - 1.1
	Specimen IST-8						Specimen IST-9					
All Method	90	1.65	0.06	3.4	1.7	1.3 - 2.0	92	3.78	0.10	2.7	3.8	3.2 - 4.4
All i-STAT Instruments	90	1.65	0.06	3.4	1.7	1.3 - 2.0	92	3.78	0.10	2.7	3.8	3.2 - 4.4
i-STAT - moderate	68	1.65	0.06	3.4	1.7	1.3 - 2.0	70	3.78	0.11	2.9	3.8	3.2 - 4.4
i-STAT - waived	22	1.65	0.06	3.6	1.7	1.3 - 2.0	22	3.80	0.08	2.0	3.8	3.2 - 4.4
	Specimen IST-10											
All Method	92	1.09	0.04	3.8	1.1	0.7 - 1.4						
All i-STAT Instruments	92	1.09	0.04	3.8	1.1	0.7 - 1.4						
i-STAT - moderate	70	1.09	0.04	3.7	1.1	0.7 - 1.4						
i-STAT - waived	22	1.10	0.04	4.0	1.1	0.8 - 1.4						

Ionized Calcium (mmol/L)

<u><i>Instrument</i></u>	Specimen IST-6						Specimen IST-7					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	91	0.759	0.008	1.1	0.76	0.73 - 0.79	91	0.853	0.009	1.1	0.85	0.82 - 0.89
All i-STAT Instruments	91	0.759	0.008	1.1	0.76	0.73 - 0.79	91	0.853	0.009	1.1	0.85	0.82 - 0.89
i-STAT - moderate	57	0.758	0.006	0.8	0.76	0.73 - 0.78	56	0.852	0.007	0.8	0.85	0.83 - 0.88
i-STAT - waived	34	0.761	0.010	1.3	0.76	0.73 - 0.80	34	0.855	0.010	1.1	0.85	0.82 - 0.89
<u><i>Instrument</i></u>	Specimen IST-8						Specimen IST-9					
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	83	1.174	0.012	1.0	1.17	1.13 - 1.21	83	2.090	0.024	1.1	2.09	2.01 - 2.17
All i-STAT Instruments	83	1.174	0.012	1.0	1.17	1.13 - 1.21	83	2.090	0.024	1.1	2.09	2.01 - 2.17
i-STAT - moderate	56	1.176	0.010	0.8	1.18	1.14 - 1.21	57	2.093	0.022	1.0	2.09	2.02 - 2.16
i-STAT - waived	26	1.171	0.010	0.9	1.17	1.14 - 1.21	25	2.088	0.016	0.8	2.09	2.03 - 2.14
<u><i>Instrument</i></u>	Specimen IST-10											
	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>						
All Method	83	0.760	0.007	1.0	0.76	0.73 - 0.79						
All i-STAT Instruments	83	0.760	0.007	1.0	0.76	0.73 - 0.79						
i-STAT - moderate	56	0.759	0.006	0.8	0.76	0.74 - 0.78						
i-STAT - waived	26	0.760	0.009	1.2	0.76	0.73 - 0.79						

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	179	2.07	0.24	11.8	2.1	1.8 - 2.3	179	3.55	0.41	11.6	3.7	3.1 - 4.0
All Bromocresol Green Reagents	136	2.19	0.11	4.9	2.2	1.9 - 2.5	137	3.76	0.15	4.1	3.8	3.3 - 4.2
All Bromocresol Purple Reagents	42	1.67	0.07	4.4	1.7	1.5 - 1.9	42	2.85	0.10	3.6	2.8	2.5 - 3.2
Abaxis Piccolo												
Abaxis Piccolo - waived	14	1.73	0.06	3.5	1.7	1.5 - 2.0	14	2.79	0.12	4.3	2.8	2.5 - 3.1
All Chemistry Instruments	15	1.73	0.06	3.6	1.7	1.5 - 2.0	15	2.79	0.12	4.2	2.8	2.5 - 3.1
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	2.22	0.07	3.0	2.2	1.9 - 2.5	24	3.78	0.09	2.5	3.8	3.4 - 4.2
Beckman AU												
Beckman AU systems	29	2.16	0.06	2.9	2.2	1.9 - 2.4	28	3.75	0.06	1.7	3.7	3.3 - 4.2
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.19	0.10	4.7	2.2	1.9 - 2.5	18	3.60	0.17	4.7	3.6	3.2 - 4.0
Roche cobas c 501												
Roche cobas 6000 / c 501	9	2.37	0.07	3.0	2.4	2.1 - 2.7	9	4.00	0.07	1.8	4.0	3.6 - 4.4
Roche Integra												
Roche Integra	17	2.19	0.10	4.4	2.2	1.9 - 2.5	17	3.84	0.16	4.1	3.8	3.4 - 4.3
Siemens Healthcare												
Siemens Dimension	26	1.63	0.06	3.4	1.6	1.4 - 1.8	26	2.88	0.07	2.6	2.9	2.5 - 3.2
All Chemistry Instruments	27	1.64	0.06	3.5	1.6	1.4 - 1.9	27	2.89	0.08	2.7	2.9	2.5 - 3.2
VITROS												
VITROS 250,350,400 500,700,750,950	21	2.08	0.05	2.6	2.1	1.8 - 2.3	22	3.74	0.13	3.4	3.8	3.3 - 4.2
All Chemistry Instruments	22	2.07	0.06	2.7	2.1	1.8 - 2.3	23	3.73	0.13	3.4	3.7	3.3 - 4.2

Albumin (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	2.78	0.31	11.0	2.9	2.5 - 3.1	168	3.05	0.33	10.9	3.1	2.7 - 3.4
All Bromocresol Green Reagents	137	2.92	0.13	4.4	2.9	2.6 - 3.3	136	3.19	0.14	4.4	3.2	2.8 - 3.6
All Bromocresol Purple Reagents	31	2.19	0.07	3.2	2.2	1.9 - 2.5	31	2.41	0.07	2.8	2.4	2.1 - 2.7
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.2	1.9 - 2.5	3	-	-	-	2.4	2.1 - 2.7
All Chemistry Instruments	4	-	-	-	2.2	1.9 - 2.4	4	-	-	-	2.4	2.1 - 2.7
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	24	2.93	0.07	2.4	2.9	2.6 - 3.3	24	3.21	0.08	2.4	3.2	2.8 - 3.6
Beckman AU												
Beckman AU systems	29	2.89	0.07	2.4	2.9	2.6 - 3.2	29	3.18	0.07	2.3	3.2	2.8 - 3.5
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	2.84	0.14	5.0	2.8	2.5 - 3.2	18	3.08	0.15	4.8	3.0	2.7 - 3.4
Roche cobas c 501												
Roche cobas 6000 / c 501	9	3.13	0.09	2.8	3.1	2.8 - 3.5	9	3.42	0.08	2.4	3.4	3.0 - 3.8
Roche Integra												
Roche Integra	17	2.98	0.14	4.8	3.0	2.6 - 3.3	17	3.26	0.14	4.2	3.3	2.9 - 3.6
Siemens Healthcare												
Siemens Dimension	26	2.19	0.07	3.3	2.2	1.9 - 2.5	26	2.41	0.07	2.9	2.4	2.1 - 2.7
All Chemistry Instruments	27	2.19	0.07	3.3	2.2	1.9 - 2.5	27	2.41	0.07	2.9	2.4	2.1 - 2.7
VITROS												
VITROS 250,350,400 500,700,750,950	22	2.84	0.11	3.7	2.8	2.5 - 3.2	22	3.10	0.09	2.9	3.1	2.7 - 3.5
All Chemistry Instruments	23	2.83	0.11	3.8	2.8	2.5 - 3.2	23	3.09	0.09	2.9	3.1	2.7 - 3.5

Albumin (g/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	2.51	0.27	10.8	2.6	2.2 - 2.8
All Bromocresol Green Reagents	134	2.62	0.11	4.2	2.6	2.3 - 2.9
All Bromocresol Purple Reagents	30	1.98	0.06	3.3	2.0	1.7 - 2.2
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.0	1.7 - 2.2
All Chemistry Instruments	4	-	-	-	2.1	1.8 - 2.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	2.65	0.07	2.5	2.7	2.3 - 3.0
Beckman AU						
Beckman AU systems	29	2.60	0.07	2.8	2.6	2.3 - 2.9
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	2.58	0.10	3.8	2.6	2.3 - 2.9
Roche cobas c 501						
Roche cobas 6000 / c 501	9	2.80	0.09	3.1	2.8	2.5 - 3.1
Roche Integra						
Roche Integra	17	2.68	0.13	5.0	2.7	2.4 - 3.0
Siemens Healthcare						
Siemens Dimension	26	1.98	0.07	3.3	2.0	1.7 - 2.2
All Chemistry Instruments	27	1.98	0.06	3.2	2.0	1.7 - 2.2
VITROS						
VITROS 250,350,400 500,700,750,950	21	2.52	0.06	2.4	2.5	2.2 - 2.8
All Chemistry Instruments	22	2.51	0.06	2.5	2.5	2.2 - 2.8

Bilirubin, Direct (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	105	0.36	0.13	36.8	0.3	0.0 - 0.7	106	1.17	0.31	26.0	1.2	0.5 - 1.8
All Alfa Wassermann Reagents	10	0.48	0.15	30.7	0.5	0.1 - 0.8	10	1.54	0.15	9.8	1.5	1.2 - 1.9
All Roche Reagents	22	0.29	0.05	16.3	0.3	0.1 - 0.4	22	0.95	0.11	11.6	0.9	0.7 - 1.2
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	0.48	0.15	30.7	0.5	0.1 - 0.8	10	1.54	0.15	9.8	1.5	1.2 - 1.9
Beckman AU												
Beckman AU systems	22	0.42	0.08	19.0	0.4	0.2 - 0.6	22	1.34	0.18	13.5	1.4	0.9 - 1.8
Roche Integra												
Roche Integra	11	0.30	0.04	14.9	0.3	0.2 - 0.4	11	1.03	0.10	9.8	1.0	0.8 - 1.3
Siemens Healthcare												
Siemens Dimension	19	0.27	0.05	17.8	0.3	0.1 - 0.4	19	0.96	0.08	8.0	1.0	0.8 - 1.2
All Chemistry Instruments	21	0.27	0.05	17.1	0.3	0.1 - 0.4	21	0.97	0.08	8.2	1.0	0.8 - 1.2
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	12	0.33	0.22	65.6	0.4	0.0 - 0.8	12	1.03	0.37	36.3	1.2	0.2 - 1.8
<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	0.75	0.20	26.7	0.7	0.3 - 1.2	105	0.90	0.24	26.7	0.9	0.4 - 1.4
All Alfa Wassermann Reagents	10	1.02	0.10	10.1	1.0	0.8 - 1.3	10	1.21	0.09	7.2	1.2	1.0 - 1.4
All Roche Reagents	22	0.58	0.06	10.1	0.6	0.4 - 0.7	22	0.72	0.08	11.2	0.7	0.5 - 0.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	10	1.02	0.10	10.1	1.0	0.8 - 1.3	10	1.21	0.09	7.2	1.2	1.0 - 1.4
Beckman AU												
Beckman AU systems	22	0.86	0.13	14.7	0.9	0.6 - 1.2	22	1.04	0.14	13.8	1.0	0.7 - 1.4
Roche Integra												
Roche Integra	11	0.61	0.05	8.9	0.6	0.5 - 0.8	11	0.77	0.08	10.2	0.8	0.6 - 1.0
Siemens Healthcare												
Siemens Dimension	19	0.59	0.06	9.6	0.6	0.4 - 0.8	19	0.72	0.05	7.0	0.7	0.6 - 0.9
All Chemistry Instruments	21	0.60	0.06	9.9	0.6	0.4 - 0.8	21	0.72	0.05	7.1	0.7	0.6 - 0.9
VITROS-BuBc and Bc												
VITROS 250,350,400 500,700,750,950	12	0.59	0.28	47.5	0.7	0.0 - 1.2	12	0.75	0.28	37.1	0.9	0.1 - 1.4

Bilirubin, Direct (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	106	0.56	0.19	33.5	0.5	0.1 - 1.0
All Alfa Wassermann Reagents	10	0.79	0.09	11.1	0.8	0.6 - 1.0
All Roche Reagents	22	0.45	0.06	13.4	0.4	0.3 - 0.6
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	10	0.79	0.09	11.1	0.8	0.6 - 1.0
Beckman AU						
Beckman AU systems	22	0.65	0.11	17.7	0.7	0.4 - 0.9
Roche Integra						
Roche Integra	11	0.47	0.06	13.7	0.5	0.3 - 0.7
Siemens Healthcare						
Siemens Dimension	19	0.45	0.05	11.5	0.4	0.3 - 0.6
All Chemistry Instruments	21	0.45	0.05	11.3	0.5	0.3 - 0.6
VITROS-BuBc and Bc						
VITROS 250,350,400 500,700,750,950	12	0.43	0.28	66.6	0.5	0.0 - 1.0

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	176	0.96	0.13	13.9	1.0	0.5 - 1.4	177	3.14	0.34	10.7	3.1	2.5 - 3.8
All Alfa Wassermann Reagents	25	1.11	0.12	10.7	1.1	0.7 - 1.6	25	3.61	0.27	7.3	3.7	2.8 - 4.4
All Horiba Pentra Reagents	18	0.92	0.11	11.5	1.0	0.5 - 1.4	18	3.05	0.23	7.6	3.1	2.4 - 3.7
All Roche T. bili Special Reagents	24	0.86	0.08	8.9	0.9	0.4 - 1.3	24	2.87	0.15	5.1	2.9	2.2 - 3.5
Abaxis Piccolo												
Abaxis Piccolo - waived	14	0.96	0.09	8.9	1.0	0.5 - 1.4	14	2.94	0.20	6.9	3.0	2.3 - 3.6
All Chemistry Instruments	15	0.97	0.09	9.3	1.0	0.5 - 1.4	15	2.97	0.23	7.7	3.0	2.3 - 3.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	1.11	0.12	10.7	1.1	0.7 - 1.6	25	3.61	0.27	7.3	3.7	2.8 - 4.4
Beckman AU												
Beckman AU systems	28	0.97	0.10	10.2	1.0	0.5 - 1.4	28	3.06	0.24	7.7	3.1	2.4 - 3.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	0.92	0.11	11.5	1.0	0.5 - 1.4	18	3.05	0.23	7.6	3.1	2.4 - 3.7
Roche Integra-T. bili Gen.3												
Roche Integra	11	0.89	0.08	9.3	0.9	0.4 - 1.3	11	2.90	0.18	6.2	2.9	2.3 - 3.5
All Chemistry Instruments	13	0.88	0.08	9.5	0.9	0.4 - 1.3	13	2.87	0.18	6.3	2.8	2.2 - 3.5
Siemens Healthcare												
Siemens Dimension	25	0.90	0.11	11.7	0.9	0.5 - 1.4	25	3.16	0.18	5.6	3.2	2.5 - 3.8
All Chemistry Instruments	26	0.91	0.11	11.6	0.9	0.5 - 1.4	26	3.17	0.18	5.6	3.2	2.5 - 3.8
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	21	1.03	0.07	7.1	1.0	0.6 - 1.5	22	3.32	0.24	7.2	3.4	2.6 - 4.0
All Chemistry Instruments	21	1.03	0.07	7.1	1.0	0.6 - 1.5	23	3.28	0.29	8.8	3.3	2.6 - 4.0

Bilirubin, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	1.97	0.22	11.1	2.0	1.5 - 2.4	164	2.37	0.26	10.9	2.4	1.8 - 2.9
All Alfa Wassermann Reagents	25	2.27	0.17	7.3	2.3	1.8 - 2.8	24	2.73	0.22	7.9	2.8	2.1 - 3.3
All Horiba Pentra Reagents	18	1.89	0.18	9.6	1.9	1.4 - 2.3	18	2.32	0.21	9.1	2.4	1.8 - 2.8
All Roche T. bili Special Reagents	24	1.79	0.11	6.0	1.8	1.3 - 2.2	24	2.16	0.13	5.9	2.2	1.7 - 2.6
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.0	1.5 - 2.4	3	-	-	-	2.4	1.8 - 2.9
All Chemistry Instruments	4	-	-	-	2.1	1.6 - 2.5	4	-	-	-	2.4	1.9 - 2.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	2.27	0.17	7.3	2.3	1.8 - 2.8	24	2.73	0.22	7.9	2.8	2.1 - 3.3
Beckman AU												
Beckman AU systems	28	1.96	0.16	8.1	2.0	1.5 - 2.4	28	2.34	0.20	8.5	2.4	1.8 - 2.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	1.89	0.18	9.6	1.9	1.4 - 2.3	18	2.32	0.21	9.1	2.4	1.8 - 2.8
Roche Integra-T. bili Gen.3												
Roche Integra	11	1.84	0.10	5.6	1.9	1.4 - 2.3	11	2.21	0.14	6.5	2.2	1.7 - 2.7
All Chemistry Instruments	13	1.81	0.12	6.6	1.8	1.4 - 2.3	13	2.18	0.15	7.1	2.2	1.7 - 2.7
Siemens Healthcare												
Siemens Dimension	25	1.94	0.11	5.8	1.9	1.5 - 2.4	25	2.34	0.14	6.0	2.4	1.8 - 2.9
All Chemistry Instruments	26	1.94	0.11	5.7	1.9	1.5 - 2.4	26	2.35	0.14	6.0	2.4	1.8 - 2.9
VITROS - TBIL												
VITROS 250,350,400 500,700,750,950	22	2.03	0.14	7.0	2.1	1.6 - 2.5	22	2.47	0.18	7.1	2.5	1.9 - 3.0
All Chemistry Instruments	23	2.01	0.17	8.2	2.0	1.6 - 2.5	23	2.45	0.21	8.5	2.5	1.9 - 3.0

Bilirubin, Total (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	1.52	0.18	12.1	1.5	1.1 - 2.0
All Alfa Wassermann Reagents	25	1.76	0.16	8.9	1.8	1.3 - 2.2
All Horiba Pentra Reagents	18	1.48	0.12	8.4	1.5	1.0 - 1.9
All Roche T. bili Special Reagents	24	1.37	0.10	7.4	1.4	0.9 - 1.8
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	1.6	1.1 - 2.0
All Chemistry Instruments	4	-	-	-	1.6	1.2 - 2.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	1.76	0.16	8.9	1.8	1.3 - 2.2
Beckman AU						
Beckman AU systems	28	1.53	0.13	8.3	1.6	1.1 - 2.0
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	1.48	0.12	8.4	1.5	1.0 - 1.9
Roche Integra-T. bili Gen.3						
Roche Integra	11	1.40	0.11	7.8	1.4	1.0 - 1.8
All Chemistry Instruments	13	1.38	0.12	8.5	1.3	0.9 - 1.8
Siemens Healthcare						
Siemens Dimension	25	1.48	0.11	7.7	1.5	1.0 - 1.9
All Chemistry Instruments	26	1.49	0.11	7.7	1.5	1.0 - 1.9
VITROS - TBIL						
VITROS 250,350,400 500,700,750,950	22	1.59	0.13	8.0	1.6	1.1 - 2.0
All Chemistry Instruments	23	1.57	0.15	9.4	1.6	1.1 - 2.0

Calcium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	179	8.86	0.26	3.0	8.8	7.8 - 9.9	178	12.40	0.29	2.3	12.4	11.3 - 13.4
All Arsenazo Methods	80	8.91	0.27	3.0	8.9	7.9 - 10.0	79	12.39	0.24	1.9	12.4	11.3 - 13.4
All CPC Methods	97	8.81	0.24	2.8	8.8	7.8 - 9.9	97	12.41	0.31	2.5	12.4	11.4 - 13.5
Abaxis Piccolo												
Abaxis Piccolo - waived	14	9.16	0.24	2.6	9.2	8.1 - 10.2	14	12.56	0.27	2.2	12.7	11.5 - 13.6
All Chemistry Instruments	15	9.18	0.25	2.7	9.2	8.1 - 10.2	15	12.58	0.27	2.1	12.7	11.5 - 13.6
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	8.86	0.26	2.9	8.8	7.8 - 9.9	26	12.29	0.23	1.9	12.3	11.2 - 13.3
Beckman AU												
Beckman AU systems	29	8.72	0.19	2.1	8.7	7.7 - 9.8	30	12.32	0.33	2.7	12.4	11.3 - 13.4
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	8.88	0.32	3.6	8.9	7.8 - 9.9	14	12.51	0.40	3.2	12.5	11.5 - 13.6
Roche Integra												
Roche Integra	17	8.94	0.22	2.5	8.9	7.9 - 10.0	16	12.52	0.30	2.4	12.5	11.5 - 13.6
Siemens Healthcare												
Siemens Dimension	25	8.73	0.26	3.0	8.7	7.7 - 9.8	24	12.33	0.22	1.8	12.2	11.3 - 13.4
All Chemistry Instruments	27	8.73	0.26	3.0	8.7	7.7 - 9.8	26	12.32	0.21	1.7	12.2	11.3 - 13.4
VITROS												
VITROS 250,350,400 500,700,750,950	22	8.93	0.17	1.9	9.0	7.9 - 10.0	22	12.45	0.17	1.4	12.4	11.4 - 13.5
All Chemistry Instruments	23	8.93	0.17	1.9	8.9	7.9 - 10.0	23	12.44	0.17	1.4	12.4	11.4 - 13.5

Calcium (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	167	10.49	0.27	2.5	10.5	9.4 - 11.5	167	11.10	0.27	2.5	11.1	10.1 - 12.2
All Arsenazo Methods	67	10.55	0.22	2.1	10.5	9.5 - 11.6	68	11.13	0.24	2.2	11.1	10.1 - 12.2
All CPC Methods	99	10.45	0.29	2.8	10.4	9.4 - 11.5	98	11.08	0.29	2.6	11.1	10.0 - 12.1
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	10.9	9.5 - 11.6	3	-	-	-	11.4	10.1 - 12.2
All Chemistry Instruments	4	-	-	-	10.9	9.8 - 11.9	4	-	-	-	11.3	10.2 - 12.3
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	10.59	0.25	2.4	10.6	9.5 - 11.6	25	11.14	0.32	2.9	11.2	10.1 - 12.2
Beckman AU												
Beckman AU systems	29	10.34	0.19	1.8	10.4	9.3 - 11.4	30	10.97	0.25	2.3	11.0	9.9 - 12.0
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	14	10.55	0.34	3.2	10.6	9.5 - 11.6	14	11.21	0.40	3.6	11.2	10.2 - 12.3
Roche Integra												
Roche Integra	17	10.55	0.23	2.2	10.6	9.5 - 11.6	17	11.25	0.26	2.3	11.2	10.2 - 12.3
Siemens Healthcare												
Siemens Dimension	25	10.38	0.31	3.0	10.3	9.3 - 11.4	25	10.98	0.29	2.6	10.9	9.9 - 12.0
All Chemistry Instruments	27	10.38	0.31	2.9	10.3	9.3 - 11.4	27	10.98	0.28	2.6	10.9	9.9 - 12.0
VITROS												
VITROS 250,350,400 500,700,750,950	22	10.58	0.14	1.3	10.6	9.5 - 11.6	22	11.20	0.16	1.4	11.2	10.2 - 12.3
All Chemistry Instruments	23	10.58	0.14	1.3	10.6	9.5 - 11.6	23	11.20	0.16	1.5	11.2	10.1 - 12.2

Calcium (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	9.84	0.26	2.6	9.8	8.8 - 10.9
All Arsenazo Methods	69	9.90	0.26	2.6	9.9	8.9 - 11.0
All CPC Methods	98	9.80	0.26	2.6	9.8	8.7 - 10.8
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	10.2	8.9 - 11.0
All Chemistry Instruments	4	-	-	-	10.2	9.1 - 11.2
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	9.99	0.28	2.8	10.0	8.9 - 11.0
Beckman AU						
Beckman AU systems	29	9.67	0.18	1.9	9.7	8.6 - 10.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	14	9.89	0.29	2.9	9.9	8.8 - 10.9
Roche Integra						
Roche Integra	17	9.91	0.20	2.0	9.9	8.9 - 11.0
Siemens Healthcare						
Siemens Dimension	25	9.74	0.28	2.9	9.7	8.7 - 10.8
All Chemistry Instruments	27	9.73	0.28	2.8	9.7	8.7 - 10.8
VITROS						
VITROS 250,350,400 500,700,750,950	22	9.94	0.15	1.5	9.9	8.9 - 11.0
All Chemistry Instruments	23	9.93	0.15	1.5	9.9	8.9 - 11.0

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	176	1.69	0.09	5.1	1.7	1.3 - 2.0	179	4.16	0.26	6.3	4.1	3.5 - 4.8
All Alfa Wassermann Reagents	25	1.76	0.06	3.2	1.8	1.4 - 2.1	26	3.96	0.17	4.2	4.0	3.3 - 4.6
All Roche Reagents	27	1.70	0.08	4.6	1.7	1.4 - 2.0	28	4.01	0.20	4.9	4.0	3.4 - 4.7
All VITROS Reagents	23	1.73	0.05	3.1	1.7	1.4 - 2.1	23	4.63	0.14	2.9	4.6	3.9 - 5.4
Abaxis Piccolo												
Abaxis Piccolo - waived	14	1.71	0.13	7.8	1.7	1.4 - 2.1	14	4.22	0.12	2.8	4.3	3.5 - 4.9
All Chemistry Instruments	15	1.72	0.14	8.0	1.7	1.4 - 2.1	15	4.23	0.12	2.9	4.3	3.5 - 4.9
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	1.76	0.06	3.2	1.8	1.4 - 2.1	26	3.96	0.17	4.2	4.0	3.3 - 4.6
Beckman AU												
Beckman AU systems	30	1.66	0.07	4.1	1.7	1.3 - 2.0	30	4.07	0.10	2.6	4.1	3.4 - 4.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	1.58	0.04	2.5	1.6	1.2 - 1.9	17	3.89	0.11	2.9	3.9	3.3 - 4.5
Roche Integra												
Roche Integra	17	1.69	0.05	2.9	1.7	1.3 - 2.0	17	3.94	0.13	3.2	3.9	3.3 - 4.6
Siemens Healthcare												
Siemens Dimension	24	1.69	0.08	4.9	1.7	1.3 - 2.0	25	4.26	0.10	2.3	4.2	3.6 - 4.9
All Chemistry Instruments	26	1.68	0.08	5.0	1.7	1.3 - 2.0	27	4.25	0.09	2.2	4.2	3.6 - 4.9
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	15	1.72	0.06	3.3	1.7	1.4 - 2.1	15	4.63	0.12	2.5	4.6	3.9 - 5.4
All Chemistry Instruments	16	1.72	0.05	3.2	1.7	1.4 - 2.1	16	4.62	0.12	2.5	4.6	3.9 - 5.4

Creatinine (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	169	2.80	0.12	4.4	2.8	2.3 - 3.3	168	3.23	0.17	5.3	3.2	2.7 - 3.8
All Alfa Wassermann Reagents	26	2.78	0.12	4.2	2.8	2.3 - 3.2	26	3.16	0.14	4.6	3.2	2.6 - 3.7
All Roche Reagents	28	2.76	0.11	4.0	2.7	2.3 - 3.2	28	3.15	0.14	4.5	3.1	2.6 - 3.7
All VITROS Reagents	23	2.95	0.09	3.0	2.9	2.5 - 3.4	23	3.45	0.13	3.9	3.4	2.9 - 4.0
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	2.8	2.3 - 3.3	3	-	-	-	3.4	2.7 - 3.8
All Chemistry Instruments	4	-	-	-	2.9	2.4 - 3.3	4	-	-	-	3.5	2.9 - 4.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	2.78	0.12	4.2	2.8	2.3 - 3.2	26	3.16	0.14	4.6	3.2	2.6 - 3.7
Beckman AU												
Beckman AU systems	30	2.76	0.07	2.6	2.8	2.3 - 3.2	30	3.18	0.11	3.4	3.2	2.7 - 3.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	2.65	0.09	3.6	2.6	2.2 - 3.1	17	3.06	0.11	3.6	3.1	2.6 - 3.6
Roche Integra												
Roche Integra	17	2.74	0.09	3.4	2.7	2.3 - 3.2	17	3.11	0.12	3.7	3.1	2.6 - 3.6
Siemens Healthcare												
Siemens Dimension	25	2.84	0.08	2.7	2.8	2.4 - 3.3	25	3.30	0.09	2.7	3.3	2.8 - 3.8
All Chemistry Instruments	27	2.83	0.08	2.8	2.8	2.4 - 3.3	27	3.30	0.09	2.6	3.3	2.8 - 3.8
VITROS - CREA												
VITROS 250,350,400 500,700,750,950	15	2.94	0.07	2.5	2.9	2.4 - 3.4	15	3.43	0.14	4.2	3.4	2.9 - 4.0
All Chemistry Instruments	16	2.94	0.07	2.4	2.9	2.4 - 3.4	16	3.43	0.14	4.1	3.4	2.9 - 4.0

Creatinine (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	167	2.35	0.10	4.1	2.4	2.0 - 2.8
All Alfa Wassermann Reagents	26	2.37	0.08	3.5	2.4	2.0 - 2.8
All Roche Reagents	28	2.32	0.10	4.4	2.3	1.9 - 2.7
All VITROS Reagents	23	2.44	0.06	2.4	2.4	2.0 - 2.9
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	2.6	2.0 - 2.8
All Chemistry Instruments	4	-	-	-	2.6	2.1 - 3.0
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	26	2.37	0.08	3.5	2.4	2.0 - 2.8
Beckman AU						
Beckman AU systems	30	2.32	0.06	2.6	2.3	1.9 - 2.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	2.25	0.11	5.0	2.2	1.9 - 2.6
Roche Integra						
Roche Integra	17	2.31	0.08	3.4	2.3	1.9 - 2.7
Siemens Healthcare						
Siemens Dimension	25	2.38	0.07	2.8	2.4	2.0 - 2.8
All Chemistry Instruments	27	2.37	0.07	2.8	2.4	2.0 - 2.8
VITROS - CREA						
VITROS 250,350,400 500,700,750,950	15	2.43	0.05	2.0	2.4	2.0 - 2.8
All Chemistry Instruments	16	2.43	0.05	2.0	2.4	2.0 - 2.8

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	186	93.2	4.2	4.5	93	83 - 103	189	188.8	6.6	3.5	188	169 - 208
All Alfa Wassermann Reagents	28	99.1	2.3	2.3	99	89 - 110	28	196.5	4.3	2.2	196	176 - 217
All Horiba Pentra Reagents	17	92.2	4.6	5.0	91	83 - 102	17	187.3	7.8	4.1	188	168 - 207
All Roche Reagents	28	94.0	2.1	2.2	94	84 - 104	28	191.1	4.7	2.4	191	171 - 211
Abaxis Piccolo												
Abaxis Piccolo - waived	13	93.6	1.3	1.3	94	84 - 103	14	183.8	2.6	1.4	184	165 - 203
All Chemistry Instruments	14	93.6	1.2	1.3	94	84 - 103	15	183.7	2.5	1.4	184	165 - 203
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	99.1	2.3	2.3	99	89 - 110	28	196.5	4.3	2.2	196	176 - 217
Beckman AU												
Beckman AU systems	30	92.7	3.2	3.5	93	83 - 102	30	188.0	5.2	2.8	188	169 - 207
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	92.2	4.6	5.0	91	83 - 102	17	187.3	7.8	4.1	188	168 - 207
Roche Integra												
Roche Integra	17	94.5	2.3	2.4	94	85 - 104	17	191.5	5.3	2.7	190	172 - 211
Siemens Healthcare												
Siemens Dimension	24	93.0	1.4	1.5	93	83 - 103	25	188.1	4.2	2.2	189	169 - 207
All Chemistry Instruments	26	93.0	1.3	1.4	93	83 - 103	27	188.1	4.1	2.2	189	169 - 207
VITROS												
VITROS 250,350,400 500,700,750,950	22	88.7	2.3	2.5	89	79 - 98	22	185.7	4.5	2.4	186	167 - 205
All Chemistry Instruments	23	88.7	2.2	2.5	89	79 - 98	21	185.5	2.5	1.4	185	166 - 205

Glucose (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	172	136.3	5.3	3.9	136	122 - 150	171	153.2	5.7	3.7	153	137 - 169
All Alfa Wassermann Reagents	28	142.2	3.8	2.7	142	127 - 157	28	159.9	3.4	2.1	160	143 - 176
All Horiba Pentra Reagents	17	133.8	6.4	4.8	134	120 - 148	17	150.5	7.1	4.7	150	135 - 166
All Roche Reagents	28	137.7	3.7	2.7	137	123 - 152	28	155.0	3.7	2.4	154	139 - 171
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	134	122 - 150	3	-	-	-	151	137 - 169
All Chemistry Instruments	4	-	-	-	133	120 - 147	4	-	-	-	150	135 - 165
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	28	142.2	3.8	2.7	142	127 - 157	28	159.9	3.4	2.1	160	143 - 176
Beckman AU												
Beckman AU systems	30	135.9	4.0	2.9	136	122 - 150	30	152.5	4.5	2.9	153	137 - 168
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	133.8	6.4	4.8	134	120 - 148	17	150.5	7.1	4.7	150	135 - 166
Roche Integra												
Roche Integra	17	138.5	4.2	3.1	137	124 - 153	17	155.8	4.1	2.6	155	140 - 172
Siemens Healthcare												
Siemens Dimension	25	135.8	2.3	1.7	136	122 - 150	25	152.2	3.0	2.0	153	136 - 168
All Chemistry Instruments	27	135.7	2.4	1.8	136	122 - 150	27	152.3	2.9	1.9	153	137 - 168
VITROS												
VITROS 250,350,400 500,700,750,950	22	131.0	3.1	2.4	131	117 - 145	20	147.8	1.9	1.3	148	133 - 163
All Chemistry Instruments	23	130.9	3.1	2.3	131	117 - 144	21	147.7	1.9	1.3	148	132 - 163

Glucose (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	171	118.9	4.9	4.1	118	107 - 131
All Alfa Wassermann Reagents	28	125.1	3.2	2.5	125	112 - 138
All Horiba Pentra Reagents	17	116.4	5.3	4.6	116	104 - 129
All Roche Reagents	28	120.4	2.9	2.4	120	108 - 133
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	117	107 - 131
All Chemistry Instruments	4	-	-	-	117	105 - 129
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	28	125.1	3.2	2.5	125	112 - 138
Beckman AU						
Beckman AU systems	30	118.5	3.7	3.1	119	106 - 131
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	116.4	5.3	4.6	116	104 - 129
Roche Integra						
Roche Integra	17	120.9	3.4	2.8	121	108 - 134
Siemens Healthcare						
Siemens Dimension	25	118.6	1.9	1.6	118	106 - 131
All Chemistry Instruments	27	118.4	1.9	1.6	118	106 - 131
VITROS						
VITROS 250,350,400 500,700,750,950	22	113.5	2.9	2.6	114	102 - 125
All Chemistry Instruments	23	113.4	2.9	2.5	114	102 - 125

Iron (µg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	73	88.1	5.5	6.2	87	70 - 106	72	198.5	15.3	7.7	194	158 - 239
All Roche Reagents	14	88.4	3.3	3.7	89	70 - 107	14	196.9	5.8	2.9	197	157 - 237
Beckman AU												
Beckman AU systems	20	94.0	3.2	3.4	95	75 - 113	19	214.9	4.3	2.0	215	171 - 258
Siemens Healthcare												
Siemens Dimension	15	85.5	1.4	1.6	86	68 - 103	15	189.5	2.0	1.1	189	151 - 228
All Chemistry Instruments	15	85.5	1.4	1.6	86	68 - 103	15	189.5	2.0	1.1	189	151 - 228
Specimen CH-8						Specimen CH-9						
All Method	73	137.2	9.4	6.9	136	109 - 165	73	158.0	11.6	7.3	155	126 - 190
All Roche Reagents	14	137.7	4.3	3.2	138	110 - 166	14	157.3	5.5	3.5	157	125 - 189
Beckman AU												
Beckman AU systems	20	147.1	4.4	3.0	148	117 - 177	19	169.4	3.4	2.0	170	135 - 204
Siemens Healthcare												
Siemens Dimension	15	132.8	1.9	1.5	133	106 - 160	15	151.0	1.6	1.1	151	120 - 182
All Chemistry Instruments	15	132.8	1.9	1.5	133	106 - 160	15	151.0	1.6	1.1	151	120 - 182
Specimen CH-10												
All Method	72	117.4	7.2	6.1	116	93 - 141						
All Roche Reagents	14	118.0	3.4	2.9	119	94 - 142						
Beckman AU												
Beckman AU systems	19	126.1	2.5	2.0	127	100 - 152						
Siemens Healthcare												
Siemens Dimension	15	113.6	1.5	1.3	114	90 - 137						
All Chemistry Instruments	15	113.6	1.5	1.3	114	90 - 137						

Lactate (Lactic Acid) (mmol/L)

<u>Method</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	2.02	0.15	7.3	2.0	1.5 - 2.5	5	5.68	0.24	4.2	5.7	4.9 - 6.4
<u>Method</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.72	0.16	4.4	3.8	3.2 - 4.3	5	4.30	0.20	4.7	4.3	3.7 - 4.9
<u>Method</u>	<u>Specimen CH-10</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	3.06	0.27	8.8	3.0	2.2 - 3.9						

Magnesium (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	91	2.22	0.13	5.9	2.2	1.6 - 2.8	93	4.05	0.23	5.7	4.1	3.0 - 5.1
All Horiba Pentra Reagents	15	2.17	0.13	5.9	2.2	1.6 - 2.8	15	3.85	0.21	5.4	3.8	2.8 - 4.9
All Roche Reagents	22	2.18	0.09	3.9	2.2	1.6 - 2.8	22	4.00	0.12	3.0	4.0	3.0 - 5.1
Beckman AU												
Beckman AU systems	17	2.21	0.08	3.7	2.2	1.6 - 2.8	17	4.07	0.15	3.7	4.1	3.0 - 5.1
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	15	2.17	0.13	5.9	2.2	1.6 - 2.8	15	3.85	0.21	5.4	3.8	2.8 - 4.9
Roche Integra												
Roche Integra	13	2.14	0.07	3.0	2.1	1.6 - 2.7	13	3.95	0.11	2.7	4.0	2.9 - 5.0
Siemens Healthcare												
Siemens Dimension	14	2.24	0.11	4.8	2.2	1.6 - 2.8	14	4.19	0.14	3.4	4.2	3.1 - 5.3
All Chemistry Instruments	15	2.24	0.11	4.7	2.2	1.6 - 2.8	15	4.20	0.15	3.5	4.2	3.1 - 5.3

Phosphorus (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	70	3.27	0.14	4.4	3.2	2.9 - 3.7
All Roche Reagents	17	3.18	0.08	2.4	3.2	2.8 - 3.6
Beckman AU						
Beckman AU systems	17	3.27	0.12	3.5	3.3	2.9 - 3.7
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	8	3.36	0.19	5.7	3.5	3.0 - 3.8
Roche cobas c 501						
Roche cobas 6000 / c 501	5	3.24	0.05	1.7	3.2	2.8 - 3.6
Roche Integra						
Roche Integra	11	3.15	0.07	2.2	3.1	2.8 - 3.5
Siemens Healthcare						
Siemens Dimension	11	3.31	0.09	2.9	3.3	2.9 - 3.7
All Chemistry Instruments	12	3.28	0.13	3.9	3.3	2.9 - 3.7
VITROS						
VITROS 250,350,400 500,700,750,950	7	3.46	0.10	2.8	3.5	3.0 - 3.9

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	172	4.16	0.13	3.2	4.2	3.7 - 4.6	174	7.27	0.23	3.2	7.3	6.5 - 8.1
All Alfa Wassermann Reagents	25	4.22	0.11	2.5	4.2	3.8 - 4.7	24	7.43	0.15	2.0	7.5	6.6 - 8.2
All Horiba Pentra Reagents	17	4.09	0.16	3.9	4.1	3.6 - 4.6	17	7.22	0.23	3.2	7.2	6.5 - 8.0
All Roche Reagents	28	4.13	0.14	3.4	4.1	3.7 - 4.6	28	7.23	0.22	3.1	7.3	6.5 - 8.0
Abaxis Piccolo												
Abaxis Piccolo - waived	14	4.21	0.09	2.2	4.2	3.7 - 4.7	14	7.25	0.10	1.4	7.2	6.5 - 8.0
All Chemistry Instruments	15	4.20	0.09	2.2	4.2	3.7 - 4.7	15	7.25	0.10	1.4	7.2	6.5 - 8.0
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	4.22	0.11	2.5	4.2	3.8 - 4.7	24	7.43	0.15	2.0	7.5	6.6 - 8.2
Beckman AU												
Beckman AU systems	29	4.03	0.10	2.4	4.0	3.6 - 4.5	29	7.17	0.16	2.3	7.2	6.4 - 7.9
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	4.09	0.16	3.9	4.1	3.6 - 4.6	17	7.22	0.23	3.2	7.2	6.5 - 8.0
Roche Integra												
Roche Integra	17	4.04	0.08	2.0	4.0	3.6 - 4.5	17	7.11	0.19	2.7	7.1	6.3 - 7.9
Siemens Healthcare												
Siemens Dimension	24	4.26	0.09	2.2	4.3	3.8 - 4.7	24	7.52	0.15	1.9	7.5	6.7 - 8.3
All Chemistry Instruments	25	4.26	0.09	2.1	4.3	3.8 - 4.7	25	7.52	0.15	2.0	7.5	6.7 - 8.3
VITROS												
VITROS 250,350,400 500,700,750,950	22	4.19	0.10	2.3	4.2	3.7 - 4.7	22	7.07	0.16	2.2	7.1	6.3 - 7.8
All Chemistry Instruments	23	4.18	0.10	2.5	4.2	3.7 - 4.7	23	7.06	0.16	2.3	7.0	6.3 - 7.8

Protein, Total (g/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	164	5.57	0.19	3.5	5.6	5.0 - 6.2	161	6.14	0.19	3.2	6.1	5.5 - 6.8
All Alfa Wassermann Reagents	25	5.72	0.13	2.2	5.7	5.1 - 6.3	24	6.27	0.12	2.0	6.3	5.6 - 6.9
All Horiba Pentra Reagents	17	5.48	0.21	3.8	5.5	4.9 - 6.1	17	6.07	0.22	3.6	6.0	5.4 - 6.7
All Roche Reagents	28	5.53	0.18	3.3	5.6	4.9 - 6.1	28	6.09	0.18	2.9	6.1	5.4 - 6.8
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	5.5	5.0 - 6.2	3	-	-	-	6.2	5.5 - 6.8
All Chemistry Instruments	4	-	-	-	5.5	4.9 - 6.1	4	-	-	-	6.2	5.5 - 6.8
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	5.72	0.13	2.2	5.7	5.1 - 6.3	24	6.27	0.12	2.0	6.3	5.6 - 6.9
Beckman AU												
Beckman AU systems	29	5.45	0.14	2.5	5.5	4.9 - 6.0	29	6.02	0.16	2.6	6.0	5.4 - 6.7
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	5.48	0.21	3.8	5.5	4.9 - 6.1	17	6.07	0.22	3.6	6.0	5.4 - 6.7
Roche Integra												
Roche Integra	17	5.42	0.13	2.4	5.4	4.8 - 6.0	17	5.98	0.13	2.2	6.0	5.3 - 6.6
Siemens Healthcare												
Siemens Dimension	24	5.75	0.13	2.2	5.8	5.1 - 6.4	24	6.31	0.13	2.1	6.3	5.6 - 7.0
All Chemistry Instruments	25	5.75	0.13	2.3	5.8	5.1 - 6.4	25	6.32	0.13	2.1	6.3	5.6 - 7.0
VITROS												
VITROS 250,350,400 500,700,750,950	22	5.52	0.13	2.3	5.6	4.9 - 6.1	21	6.06	0.16	2.6	6.1	5.4 - 6.7
All Chemistry Instruments	23	5.51	0.13	2.4	5.5	4.9 - 6.1	22	6.05	0.16	2.7	6.1	5.4 - 6.7

Protein, Total (g/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	160	5.01	0.16	3.1	5.0	4.5 - 5.6
All Alfa Wassermann Reagents	25	5.12	0.11	2.1	5.1	4.6 - 5.7
All Horiba Pentra Reagents	17	4.91	0.18	3.6	4.9	4.4 - 5.5
All Roche Reagents	28	4.97	0.16	3.1	5.0	4.4 - 5.5
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	5.0	4.5 - 5.6
All Chemistry Instruments	4	-	-	-	5.0	4.4 - 5.5
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	25	5.12	0.11	2.1	5.1	4.6 - 5.7
Beckman AU						
Beckman AU systems	29	4.87	0.13	2.6	4.9	4.3 - 5.4
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	4.91	0.18	3.6	4.9	4.4 - 5.5
Roche Integra						
Roche Integra	17	4.87	0.10	2.1	4.9	4.3 - 5.4
Siemens Healthcare						
Siemens Dimension	24	5.13	0.11	2.2	5.1	4.6 - 5.7
All Chemistry Instruments	25	5.14	0.12	2.2	5.1	4.6 - 5.7
VITROS						
VITROS 250,350,400 500,700,750,950	21	5.00	0.12	2.4	5.0	4.4 - 5.5
All Chemistry Instruments	22	4.98	0.13	2.7	5.0	4.4 - 5.5

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	177	15.8	1.2	7.6	16	13 - 18	179	36.8	2.5	6.8	37	33 - 41
All Alfa Wassermann Reagents	27	16.1	0.5	3.3	16	14 - 19	27	37.3	0.8	2.2	37	33 - 41
All Horiba Pentra Reagents	16	14.9	0.7	4.6	15	12 - 17	17	34.8	1.7	4.8	35	31 - 38
All Roche Reagents	27	16.1	0.4	2.6	16	14 - 19	28	37.8	1.0	2.8	38	34 - 42
Abaxis Piccolo												
Abaxis Piccolo - waived	14	15.0	0.1	0.0	15	13 - 17	14	36.0	0.6	1.5	36	32 - 40
All Chemistry Instruments	15	15.0	0.1	0.0	15	13 - 17	15	36.0	0.5	1.5	36	32 - 40
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	16.1	0.5	3.3	16	14 - 19	27	37.3	0.8	2.2	37	33 - 41
Beckman AU												
Beckman AU systems	29	16.8	0.6	3.8	17	14 - 19	29	38.9	1.5	3.9	39	35 - 43
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	16	14.9	0.7	4.6	15	12 - 17	17	34.8	1.7	4.8	35	31 - 38
Roche Integra												
Roche Integra	17	16.0	0.7	4.4	16	14 - 18	17	37.6	1.1	3.0	38	34 - 41
Siemens Healthcare												
Siemens Dimension	25	16.6	0.8	4.6	17	14 - 19	25	38.6	1.5	4.0	39	35 - 43
All Chemistry Instruments	27	16.6	0.7	4.5	17	14 - 19	27	38.7	1.5	3.9	39	35 - 43
VITROS												
VITROS 250,350,400 500,700,750,950	22	13.5	0.5	3.8	14	11 - 16	21	31.8	0.5	1.6	32	28 - 35
All Chemistry Instruments	23	13.5	0.5	3.8	14	11 - 16	22	31.8	0.5	1.6	32	28 - 35

Urea Nitrogen (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	169	25.2	1.9	7.5	26	22 - 28	168	28.9	2.1	7.3	29	26 - 32
All Alfa Wassermann Reagents	27	25.7	0.8	3.2	26	23 - 29	26	29.6	0.6	2.0	30	26 - 33
All Horiba Pentra Reagents	17	24.0	1.0	4.2	24	21 - 27	17	27.5	1.3	4.7	28	25 - 31
All Roche Reagents	28	25.7	0.7	2.8	26	23 - 28	28	29.7	0.7	2.4	30	27 - 33
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	24	22 - 28	3	-	-	-	28	26 - 32
All Chemistry Instruments	4	-	-	-	24	21 - 27	4	-	-	-	28	25 - 31
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	27	25.7	0.8	3.2	26	23 - 29	26	29.6	0.6	2.0	30	26 - 33
Beckman AU												
Beckman AU systems	29	26.8	1.0	3.6	27	24 - 30	29	30.5	1.1	3.5	31	27 - 34
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	24.0	1.0	4.2	24	21 - 27	17	27.5	1.3	4.7	28	25 - 31
Roche Integra												
Roche Integra	17	25.5	0.8	3.1	26	23 - 28	17	29.5	0.7	2.4	30	26 - 33
Siemens Healthcare												
Siemens Dimension	25	26.2	1.0	3.7	26	23 - 29	25	30.0	1.3	4.5	30	27 - 33
All Chemistry Instruments	27	26.3	0.9	3.6	26	23 - 29	27	30.0	1.3	4.4	30	27 - 33
VITROS												
VITROS 250,350,400 500,700,750,950	22	21.3	0.5	2.2	21	19 - 24	22	24.7	0.6	2.3	25	22 - 27
All Chemistry Instruments	23	21.3	0.5	2.3	21	19 - 24	23	24.7	0.6	2.3	25	22 - 27

Urea Nitrogen (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	167	21.4	1.7	7.8	22	19 - 24
All Alfa Wassermann Reagents	27	22.1	0.7	3.0	22	20 - 25
All Horiba Pentra Reagents	17	20.2	1.3	6.4	20	18 - 23
All Roche Reagents	28	21.9	0.5	2.4	22	19 - 24
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	20	19 - 24
All Chemistry Instruments	4	-	-	-	20	18 - 22
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	27	22.1	0.7	3.0	22	20 - 25
Beckman AU						
Beckman AU systems	29	22.6	0.7	3.2	23	20 - 25
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	20.2	1.3	6.4	20	18 - 23
Roche Integra						
Roche Integra	17	21.8	0.6	2.6	22	19 - 24
Siemens Healthcare						
Siemens Dimension	25	22.3	0.9	4.2	22	20 - 25
All Chemistry Instruments	27	22.3	0.9	4.1	22	20 - 25
VITROS						
VITROS 250,350,400 500,700,750,950	22	18.1	0.6	3.1	18	16 - 21
All Chemistry Instruments	23	18.1	0.5	3.0	18	16 - 21

Uric Acid (mg/dL)

Specimen CH-10

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	112	5.49	0.24	4.3	5.5	4.5 - 6.5
All Alfa Wassermann Reagents	15	5.63	0.24	4.3	5.6	4.6 - 6.6
All Roche Reagents	22	5.44	0.21	3.9	5.5	4.5 - 6.4
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	15	5.63	0.24	4.3	5.6	4.6 - 6.6
Beckman AU						
Beckman AU systems	22	5.55	0.14	2.6	5.6	4.6 - 6.5
Horiba ABX Pentra						
Horiba ABX Pentra 400	11	5.31	0.16	3.1	5.3	4.4 - 6.3
Roche Integra						
Roche Integra	12	5.53	0.23	4.2	5.6	4.5 - 6.5
Siemens Healthcare						
Siemens Dimension	17	5.32	0.06	1.2	5.3	4.4 - 6.3
All Chemistry Instruments	19	5.34	0.09	1.7	5.3	4.4 - 6.3
VITROS						
VITROS 250,350,400 500,700,750,950	12	5.38	0.15	2.8	5.4	4.4 - 6.3
All Chemistry Instruments	13	5.40	0.16	2.9	5.4	4.4 - 6.4

Chloride (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	174	97.1	2.3	2.3	97	92 - 103	174	112.1	2.8	2.5	112	106 - 118
Abaxis Piccolo												
Abaxis Piccolo - waived	14	102.1	1.5	1.5	102	96 - 108	14	112.9	1.9	1.7	113	107 - 119
All Chemistry Instruments	15	101.9	1.6	1.6	102	96 - 107	15	113.0	1.9	1.6	113	107 - 119
ISE Diluted												
Beckman AU systems	29	97.0	1.2	1.3	97	92 - 102	29	109.4	1.7	1.5	110	103 - 115
Roche Integra	17	98.2	1.9	2.0	98	93 - 104	17	115.1	2.5	2.2	115	109 - 121
Siemens Dimension QuickLyte - Xpand/EXL	19	95.5	0.9	0.9	95	90 - 101	20	113.6	1.3	1.2	114	107 - 120
All Chemistry Instruments	91	96.7	1.9	1.9	97	91 - 102	92	111.9	3.0	2.7	112	106 - 118
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	96.8	1.6	1.7	97	91 - 102	25	113.9	1.5	1.3	114	108 - 120
Horiba ABX Pentra 400 / C400	16	97.1	4.6	4.7	97	92 - 102	12	112.3	4.2	3.7	112	106 - 118
All Chemistry Instruments	45	96.8	2.3	2.4	97	91 - 102	43	113.3	2.8	2.4	113	107 - 120
VITROS												
VITROS 250,350,400 500,700,750,950	22	97.0	0.9	1.0	97	92 - 102	22	110.2	1.2	1.0	110	104 - 116
All Chemistry Instruments	23	97.0	0.9	0.9	97	92 - 102	23	110.2	1.1	1.0	110	104 - 116
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	161	103.7	1.9	1.8	104	98 - 109	161	106.6	2.2	2.0	106	101 - 112
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	108	98 - 109	3	-	-	-	110	101 - 112
All Chemistry Instruments	4	-	-	-	107	100 - 112	4	-	-	-	110	103 - 115
ISE Diluted												
Beckman AU systems	28	102.9	1.0	0.9	103	97 - 109	29	105.1	1.4	1.3	105	99 - 111
Roche Integra	17	105.7	2.0	1.9	106	100 - 111	17	108.8	2.5	2.3	109	103 - 115
Siemens Dimension QuickLyte - Xpand/EXL	20	103.8	1.0	1.0	104	98 - 109	20	107.0	1.0	1.0	107	101 - 113
All Chemistry Instruments	91	103.5	1.8	1.7	103	98 - 109	90	106.3	2.0	1.9	106	100 - 112
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	25	104.9	1.4	1.3	104	99 - 111	25	107.9	1.5	1.4	108	102 - 114
Horiba ABX Pentra 400 / C400	13	103.4	3.8	3.7	102	98 - 109	12	106.1	3.6	3.3	106	100 - 112
All Chemistry Instruments	43	104.5	2.4	2.3	105	99 - 110	42	107.4	2.4	2.2	108	102 - 113
VITROS												
VITROS 250,350,400 500,700,750,950	22	103.1	1.2	1.1	103	97 - 109	22	105.6	1.3	1.2	106	100 - 111
All Chemistry Instruments	23	103.1	1.1	1.1	103	97 - 109	23	105.6	1.2	1.2	105	100 - 111

Chloride (mmol/L)

Specimen CH-10

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	101.1	2.1	2.0	101	96 - 107
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	104	96 - 107
All Chemistry Instruments	4	-	-	-	106	102 - 114
ISE Diluted						
Beckman AU systems	29	100.4	1.2	1.2	100	95 - 106
Roche Integra	17	102.9	2.3	2.2	103	97 - 109
Siemens Dimension QuickLyte - Xpand/EXL	20	100.4	0.9	0.9	100	95 - 106
All Chemistry Instruments	91	100.7	1.9	1.8	100	95 - 106
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	101.7	1.6	1.6	101	96 - 107
Horiba ABX Pentra 400 / C400	14	100.6	3.6	3.5	100	95 - 106
All Chemistry Instruments	44	101.5	2.4	2.4	102	96 - 107
VITROS						
VITROS 250,350,400 500,700,750,950	22	101.0	1.1	1.1	101	95 - 107
All Chemistry Instruments	23	100.9	1.1	1.1	101	95 - 106

CO₂ (mmol/L)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	17.7	1.7	9.3	18	14 - 22	170	30.4	2.2	7.4	30	24 - 37
Abaxis Piccolo												
Abaxis Piccolo - waived	13	17.2	0.6	3.5	17	13 - 21	13	29.3	0.9	3.2	29	23 - 36
All Chemistry Instruments	14	17.2	0.6	3.4	17	13 - 21	14	29.4	0.9	3.2	29	23 - 36
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	15	17.9	1.7	9.7	18	14 - 22	15	30.5	2.5	8.1	31	24 - 37
Beckman AU systems	24	18.3	1.1	6.1	19	14 - 22	24	31.7	2.0	6.3	32	25 - 39
Horiba ABX Pentra 400 / C400	14	18.3	1.5	8.4	19	14 - 22	14	30.1	2.5	8.3	30	24 - 37
Roche Integra	16	16.6	1.5	9.3	17	13 - 20	16	28.3	2.2	7.9	29	22 - 34
Siemens Dimension	18	19.9	2.1	10.3	19	15 - 24	18	32.6	1.3	4.1	33	26 - 40
All Chemistry Instruments	103	17.9	1.7	9.7	18	14 - 22	104	30.6	2.4	7.7	31	24 - 37
ISE Diluted												
All Chemistry Instruments	12	17.9	2.5	14.0	18	14 - 22	12	30.3	2.3	7.5	31	24 - 37
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	17.4	1.5	8.6	17	13 - 21	11	30.1	2.3	7.5	30	24 - 37
All Chemistry Instruments	17	17.9	1.9	10.8	17	14 - 22	17	30.8	3.2	10.4	30	24 - 37
VITROS												
VITROS 250,350,400 500,700,750,950	22	17.0	1.5	8.8	17	13 - 21	22	30.0	1.9	6.3	30	24 - 37
All Chemistry Instruments	23	17.0	1.5	8.7	17	13 - 21	23	30.0	1.9	6.2	30	24 - 36
	Specimen CH-8						Specimen CH-9					
All Method	162	23.1	2.1	9.0	23	18 - 28	161	25.4	2.5	9.8	25	20 - 31
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	23	18 - 28	3	-	-	-	26	20 - 31
All Chemistry Instruments	4	-	-	-	23	18 - 28	4	-	-	-	26	20 - 31
Enzymatic Reagent												
Alfa Wassermann ACE Alera/Axcel	15	23.7	2.1	8.8	25	18 - 29	15	26.7	2.0	7.4	27	21 - 33
Beckman AU systems	25	23.8	1.7	7.2	24	19 - 29	25	25.8	2.0	7.7	27	20 - 32
Horiba ABX Pentra 400	14	23.4	1.7	7.0	24	18 - 29	14	25.2	2.4	9.5	25	20 - 31
Roche Integra	16	21.6	1.7	7.9	22	17 - 26	16	23.2	2.3	9.7	23	18 - 28
Siemens Dimension	18	24.7	1.4	5.5	25	19 - 30	18	27.7	1.7	6.2	28	22 - 34
All Chemistry Instruments	106	23.4	2.0	8.7	24	18 - 29	106	25.6	2.5	9.8	26	20 - 31
ISE Diluted												
All Chemistry Instruments	12	22.3	4.6	20.5	23	17 - 27	12	25.3	6.1	24.1	25	20 - 31
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	11	22.9	1.8	7.9	23	18 - 28	11	25.9	1.8	7.0	27	20 - 32
All Chemistry Instruments	17	23.5	2.2	9.2	23	18 - 29	17	26.3	2.4	9.1	27	21 - 32
VITROS												
VITROS 250,350,400 500,700,750,950	22	21.8	1.8	8.3	22	17 - 27	22	23.5	1.8	7.8	24	18 - 29
All Chemistry Instruments	23	21.7	1.8	8.3	22	17 - 27	23	23.4	1.8	7.6	23	18 - 29

CO₂ (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	161	20.6	2.2	10.7	21	16 - 25
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	21	16 - 25
All Chemistry Instruments	4	-	-	-	22	17 - 26
Enzymatic Reagent						
Alfa Wassermann ACE Alera/Axcel	15	21.4	2.0	9.1	22	17 - 26
Beckman AU systems	25	21.2	1.5	7.1	22	16 - 26
Horiba ABX Pentra 400	14	20.6	2.0	9.8	21	16 - 25
Roche Integra	16	19.1	2.1	11.1	20	15 - 23
Siemens Dimension	17	22.5	1.5	6.9	23	17 - 27
All Chemistry Instruments	105	20.9	2.1	9.9	21	16 - 26
ISE Diluted						
All Chemistry Instruments	12	19.7	3.8	19.2	20	15 - 24
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	11	21.0	2.2	10.6	22	16 - 26
All Chemistry Instruments	17	21.1	2.5	11.7	22	16 - 26
VITROS						
VITROS 250,350,400 500,700,750,950	22	18.7	2.1	11.0	19	14 - 23
All Chemistry Instruments	23	18.7	2.0	10.7	19	14 - 23

Potassium (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	168	4.56	0.09	1.9	4.6	4.0 - 5.1
Abaxis Piccolo						
Abaxis Piccolo - waived	2	-	-	-	4.6	4.0 - 5.1
All Chemistry Instruments	4	-	-	-	4.6	4.0 - 5.1
ISE Diluted						
Beckman AU systems	29	4.52	0.08	1.8	4.5	4.0 - 5.1
Roche Integra	17	4.59	0.04	0.9	4.6	4.0 - 5.1
Siemens Dimension QuickLyte - Xpand/EXL	21	4.54	0.06	1.3	4.5	4.0 - 5.1
All Chemistry Instruments	92	4.56	0.07	1.6	4.6	4.0 - 5.1
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	25	4.59	0.07	1.5	4.6	4.0 - 5.1
Horiba ABX Pentra 400	17	4.48	0.07	1.6	4.5	3.9 - 5.0
All Chemistry Instruments	47	4.54	0.09	1.9	4.5	4.0 - 5.1
VITROS						
VITROS 250,350,400 500,700,750,950	22	4.61	0.08	1.7	4.6	4.1 - 5.2
All Chemistry Instruments	23	4.61	0.08	1.6	4.6	4.1 - 5.2

Sodium (mmol/L)

Technical tip: Incomplete or incorrect method reporting is a common cause of proficiency test failure, especially when it comes to the electrolytes. If your test method is "ISE Direct", it should be reported as ISE Undiluted on your MLE test result form (TRF). If your test method is "ISE Indirect", it should be reported as ISE Diluted on your MLE TRF. Be sure to check your package insert for the correct test method, or contact the manufacturer of the instrument or reagent.

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	178	131.4	2.1	1.6	131	127 - 136	174	157.5	2.2	1.4	157	153 - 162
Abaxis Piccolo												
Abaxis Piccolo - waived	13	134.7	2.4	1.8	135	130 - 139	13	162.3	2.1	1.3	162	158 - 167
All Chemistry Instruments	15	134.6	2.3	1.7	135	130 - 139	15	162.7	2.8	1.7	162	158 - 167
ISE Diluted												
Beckman AU systems	28	130.9	1.0	0.8	131	126 - 135	27	156.3	1.5	1.0	156	152 - 161
Roche Integra	17	131.1	1.3	1.0	131	127 - 136	17	156.3	1.0	0.7	156	152 - 161
Siemens Dimension QuickLyte - Xpand/EXL	21	132.9	1.5	1.1	133	128 - 137	21	156.2	1.8	1.2	156	152 - 161
All Chemistry Instruments	92	131.6	1.5	1.1	132	127 - 136	89	156.5	1.5	1.0	156	152 - 161
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	27	128.8	1.5	1.1	129	124 - 133	26	158.4	1.9	1.2	159	154 - 163
Horiba ABX Pentra 400 / C400	15	129.9	1.2	0.9	130	125 - 134	15	158.1	1.4	0.9	158	154 - 163
All Chemistry Instruments	47	129.3	1.5	1.2	129	125 - 134	46	158.1	1.8	1.1	158	154 - 163
VITROS												
VITROS 250,350,400 500,700,750,950	22	132.5	1.0	0.7	133	128 - 137	21	157.8	1.0	0.7	158	153 - 162
All Chemistry Instruments	23	132.6	1.0	0.7	133	128 - 137	22	157.8	1.0	0.6	158	153 - 162
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	142.8	1.5	1.1	143	138 - 147	165	147.3	1.6	1.1	147	143 - 152
Abaxis Piccolo												
Abaxis Piccolo - waived	2	-	-	-	146	138 - 147	2	-	-	-	150	143 - 152
All Chemistry Instruments	4	-	-	-	147	143 - 151	4	-	-	-	151	146 - 155
ISE Diluted												
Beckman AU systems	27	142.6	1.1	0.8	143	138 - 147	28	147.2	1.2	0.8	147	143 - 152
Roche Integra	17	142.6	1.5	1.1	143	138 - 147	17	146.6	1.5	1.0	147	142 - 151
Siemens Dimension QuickLyte - Xpand/EXL	21	143.2	1.3	0.9	143	139 - 148	21	147.2	1.5	1.0	147	143 - 152
All Chemistry Instruments	91	142.8	1.3	0.9	143	138 - 147	90	147.2	1.4	1.0	147	143 - 152
ISE Undiluted												
Alfa Wassermann ACE Alera/Axcel	26	142.0	1.5	1.1	142	137 - 146	26	146.8	1.4	1.0	147	142 - 151
Horiba ABX Pentra 400	15	142.4	1.4	0.9	142	138 - 147	15	147.3	1.1	0.7	148	143 - 152
All Chemistry Instruments	46	142.0	1.5	1.0	142	138 - 146	46	146.9	1.4	1.0	147	142 - 151
VITROS												
VITROS 250,350,400 500,700,750,950	22	143.9	1.0	0.7	144	139 - 148	22	148.4	1.5	1.0	148	144 - 153
All Chemistry Instruments	23	143.7	1.1	0.8	144	139 - 148	23	148.5	1.5	1.0	148	144 - 153

Sodium (mmol/L)**Specimen CH-10**

<u>Method/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	138.0	1.8	1.3	138	133 - 142
Abaxis Piccolo						
Abaxis Piccolo - waived	2	-	-	-	142	133 - 142
All Chemistry Instruments	4	-	-	-	140	136 - 145
ISE Diluted						
Beckman AU systems	29	137.9	1.6	1.1	138	133 - 142
Roche Integra	17	137.7	1.6	1.2	138	133 - 142
Siemens Dimension QuickLyte - Xpand/EXL	21	138.6	1.4	1.0	139	134 - 143
All Chemistry Instruments	92	138.1	1.5	1.1	138	134 - 143
ISE Undiluted						
Alfa Wassermann ACE Alera/Axcel	26	136.4	1.6	1.2	136	132 - 141
Horiba ABX Pentra 400	15	137.2	1.1	0.8	137	133 - 142
All Chemistry Instruments	46	136.7	1.5	1.1	137	132 - 141
VITROS						
VITROS 250,350,400 500,700,750,950	22	139.6	1.4	1.0	140	135 - 144
All Chemistry Instruments	23	139.5	1.4	1.0	139	135 - 144

TIBC – Calculated (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	177.2	34.9	19.7	201	107 - 248	9	306.8	74.6	24.3	348	157 - 456
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	172.8	35.1	20.3	182	102 - 243	5	298.0	79.5	26.7	333	139 - 457
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	237.3	53.5	22.5	268	130 - 345	9	258.8	58.9	22.8	294	140 - 377
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	233.2	57.3	24.6	258	118 - 348	5	251.4	62.5	24.8	275	126 - 377
<u>Method/Instrument</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	210.8	45.2	21.4	232	120 - 302						
Calculated TIBC (TRF x CF 1.40 - 1.49)												
All Chemistry Instruments	5	205.8	47.4	23.0	218	110 - 301						

TIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	173.0	35.9	20.7	165	101 - 245	17	290.5	27.2	9.4	284	232 - 349
Siemens Healthcare												
Siemens Dimension	11	151.4	7.7	5.1	151	121 - 182	11	274.6	7.9	2.9	277	219 - 330
All Chemistry Instruments	12	152.6	8.4	5.5	152	122 - 184	12	276.0	8.9	3.2	278	220 - 332
<u>Method/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	227.2	33.0	14.5	220	161 - 294	17	249.5	32.4	13.0	242	184 - 315
Siemens Healthcare												
Siemens Dimension	11	207.5	6.9	3.3	208	165 - 249	11	229.3	5.6	2.4	229	183 - 276
All Chemistry Instruments	12	208.6	7.7	3.7	208	166 - 251	12	231.2	8.4	3.6	230	184 - 278
<u>Method/Instrument</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	204.2	34.4	16.8	190	135 - 273						
Siemens Healthcare												
Siemens Dimension	11	184.7	5.5	3.0	184	147 - 222						
All Chemistry Instruments	12	185.2	5.5	3.0	186	148 - 223						

UIBC – Direct (µg/dL)

<u>Method/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	106.8	6.6	6.2	108	85 - 129	24	144.5	7.9	5.5	144	115 - 174
All Roche Reagents	11	103.1	6.9	6.7	104	82 - 124	11	140.4	7.4	5.3	141	112 - 169
Beckman AU Beckman AU systems	12	110.8	3.4	3.1	111	88 - 133	12	148.9	6.0	4.1	148	119 - 179
Specimen CH-8												
All Method	24	124.8	7.4	5.9	126	99 - 150	24	131.4	7.6	5.8	132	105 - 158
All Roche Reagents	11	119.8	7.2	6.0	118	95 - 144	11	127.4	7.6	6.0	131	101 - 153
Beckman AU Beckman AU systems	12	129.3	4.7	3.6	131	103 - 156	12	135.2	5.9	4.4	137	108 - 163
Specimen CH-10												
All Method	24	115.0	8.1	7.1	117	92 - 138						
All Roche Reagents	11	110.5	7.9	7.2	111	88 - 133						
Beckman AU Beckman AU systems	12	120.3	3.9	3.3	120	96 - 145						

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	171	74.5	8.7	11.7	74	59 - 90	171	220.4	20.7	9.4	219	176 - 265
All Alfa Wassermann Reagents	25	62.6	2.3	3.7	62	50 - 76	26	195.2	4.6	2.3	195	156 - 235
All Horiba Pentra Reagents	17	87.1	2.7	3.2	86	69 - 105	16	260.4	7.7	2.9	259	208 - 313
All Roche Reagents	27	74.6	1.7	2.3	75	59 - 90	27	223.8	5.4	2.4	224	179 - 269
All Siemens Healthcare	6	83.3	3.4	4.1	82	66 - 100	6	246.8	15.6	6.3	241	197 - 297
Abaxis Piccolo												
Abaxis Piccolo - waived	14	71.1	2.8	3.9	71	56 - 86	14	204.4	2.7	1.3	205	163 - 246
All Chemistry Instruments	15	71.3	2.8	3.9	71	57 - 86	15	204.6	2.8	1.4	205	163 - 246
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	62.6	2.3	3.7	62	50 - 76	26	195.2	4.6	2.3	195	156 - 235
Beckman AU												
Beckman AU systems	28	69.3	2.5	3.6	69	55 - 84	28	208.0	6.1	2.9	209	166 - 250
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	87.1	2.7	3.2	86	69 - 105	16	260.4	7.7	2.9	259	208 - 313
Roche cobas c 501												
Roche cobas 6000 / c 501	9	75.8	0.8	1.1	76	60 - 91	9	227.2	3.9	1.7	226	181 - 273
Roche Integra												
Roche Integra	17	73.5	2.2	3.0	74	58 - 89	17	220.4	7.6	3.5	221	176 - 265
Siemens Healthcare												
Siemens Dimension	5	82.0	1.2	1.5	82	65 - 99	5	242.6	13.0	5.3	237	194 - 292
Siemens Healthcare ALTi												
Siemens Dimension	20	81.9	2.5	3.1	82	65 - 99	19	240.0	6.0	2.5	241	192 - 288
All Chemistry Instruments	21	81.6	2.7	3.4	82	65 - 98	20	239.7	6.0	2.5	241	191 - 288
VITROS												
VITROS 250,350,400 500,700,750,950	9	94.1	7.3	7.8	92	75 - 113	9	233.8	7.3	3.1	231	187 - 281
All Chemistry Instruments	10	92.2	9.2	10.0	92	73 - 111	10	232.4	8.1	3.5	231	185 - 279
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	13	70.9	2.6	3.7	71	56 - 86	13	211.5	6.3	3.0	214	169 - 254

ALT (SGPT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	162	141.6	14.1	9.9	140	113 - 170	159	167.9	16.3	9.7	166	134 - 202
All Alfa Wassermann Reagents	26	123.7	3.7	3.0	124	98 - 149	25	147.6	2.9	2.0	147	118 - 178
All Horiba Pentra Reagents	17	165.6	4.2	2.5	165	132 - 199	17	196.9	6.6	3.3	197	157 - 237
All Roche Reagents	27	141.9	3.4	2.4	142	113 - 171	27	167.7	5.3	3.2	168	134 - 202
All Siemens Healthcare	6	154.8	8.8	5.7	151	123 - 186	6	184.2	9.2	5.0	182	147 - 222
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	131	113 - 170	3	-	-	-	155	134 - 202
All Chemistry Instruments	4	-	-	-	131	104 - 157	4	-	-	-	155	122 - 184
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	26	123.7	3.7	3.0	124	98 - 149	25	147.6	2.9	2.0	147	118 - 178
Beckman AU												
Beckman AU systems	28	131.6	4.2	3.2	131	105 - 158	28	155.9	5.1	3.2	156	124 - 188
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	17	165.6	4.2	2.5	165	132 - 199	17	196.9	6.6	3.3	197	157 - 237
Roche cobas c 501												
Roche cobas 6000 / c 501	9	143.8	2.6	1.8	143	115 - 173	9	171.9	1.9	1.1	172	137 - 207
Roche Integra												
Roche Integra	17	139.9	4.8	3.4	140	111 - 168	16	165.3	5.5	3.3	166	132 - 199
Siemens Healthcare												
Siemens Dimension	5	151.4	2.8	1.8	150	121 - 182	5	180.6	3.1	1.7	179	144 - 217
Siemens Healthcare ALTi												
Siemens Dimension	19	152.8	2.5	1.7	154	122 - 184	20	181.2	4.2	2.3	180	144 - 218
All Chemistry Instruments	20	152.5	2.9	1.9	154	122 - 183	21	180.8	4.5	2.5	180	144 - 217
VITROS												
VITROS 250,350,400 500,700,750,950	9	157.7	5.0	3.2	156	126 - 190	9	182.8	5.1	2.8	182	146 - 220
All Chemistry Instruments	10	156.3	6.4	4.1	156	125 - 188	10	181.3	6.7	3.7	182	145 - 218
VITROS ALTV												
VITROS 250,350,400 500,700,750,950	13	134.2	4.1	3.0	135	107 - 162	13	159.4	4.3	2.7	160	127 - 192

ALT (SGPT) (IU/L)**Specimen CH-10**

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	159	115.2	12.4	10.8	114	92 - 139
All Alfa Wassermann Reagents	24	99.9	3.4	3.4	99	79 - 120
All Horiba Pentra Reagents	17	135.2	4.2	3.1	134	108 - 163
All Roche Reagents	28	114.1	3.4	3.0	115	91 - 137
All Siemens Healthcare	6	126.3	7.1	5.6	124	101 - 152
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	105	92 - 139
All Chemistry Instruments	4	-	-	-	106	84 - 127
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	99.9	3.4	3.4	99	79 - 120
Beckman AU						
Beckman AU systems	27	106.3	3.4	3.2	106	85 - 128
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	17	135.2	4.2	3.1	134	108 - 163
Roche cobas c 501						
Roche cobas 6000 / c 501	9	116.2	1.9	1.6	116	92 - 140
Roche Integra						
Roche Integra	17	112.9	3.7	3.3	113	90 - 136
Siemens Healthcare						
Siemens Dimension	5	123.6	2.5	2.0	124	98 - 149
Siemens Healthcare ALTi						
Siemens Dimension	20	124.7	3.0	2.4	125	99 - 150
All Chemistry Instruments	21	124.4	3.2	2.5	125	99 - 150
VITROS						
VITROS 250,350,400 500,700,750,950	9	138.9	23.5	16.9	130	111 - 167
All Chemistry Instruments	10	136.5	23.4	17.1	130	109 - 164
VITROS ALTV						
VITROS 250,350,400 500,700,750,950	13	109.1	2.5	2.3	109	87 - 131

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-6</u>						<u>Specimen CH-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	176	109.7	10.7	9.8	111	76 - 143	177	274.3	47.5	17.3	289	191 - 357
All Alfa Wassermann Reagents	25	111.2	4.4	4.0	112	77 - 145	25	288.7	11.6	4.0	289	202 - 376
All Horiba Pentra Reagents	18	124.4	4.5	3.6	125	87 - 162	18	325.2	10.1	3.1	326	227 - 423
All Roche Reagents	28	112.0	4.3	3.9	111	78 - 146	27	295.1	7.8	2.7	293	206 - 384
Abaxis Piccolo												
Abaxis Piccolo - waived	14	93.6	4.6	4.9	95	65 - 122	14	209.8	8.4	4.0	209	146 - 273
All Chemistry Instruments	15	93.3	4.6	5.0	94	65 - 122	15	209.5	8.1	3.9	208	146 - 273
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	111.2	4.4	4.0	112	77 - 145	25	288.7	11.6	4.0	289	202 - 376
Beckman AU												
Beckman AU systems	28	103.0	6.3	6.1	103	72 - 134	28	272.0	15.6	5.7	273	190 - 354
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	124.4	4.5	3.6	125	87 - 162	18	325.2	10.1	3.1	326	227 - 423
Roche Integra												
Roche Integra	16	111.4	5.1	4.6	111	78 - 145	16	294.7	12.2	4.1	295	206 - 384
All Chemistry Instruments	17	111.5	5.0	4.4	111	78 - 145	17	294.2	11.9	4.0	293	205 - 383
Siemens Healthcare ALPi												
Siemens Dimension	19	120.7	4.4	3.7	120	84 - 157	19	320.8	7.0	2.2	320	224 - 418
All Chemistry Instruments	20	120.7	4.3	3.6	121	84 - 157	20	321.2	7.0	2.2	321	224 - 418
VITROS												
VITROS 250,350,400 500,700,750,950	22	100.5	4.7	4.6	100	70 - 131	22	185.0	9.5	5.1	185	129 - 241
All Chemistry Instruments	23	100.7	4.7	4.6	100	70 - 131	23	185.6	9.7	5.2	185	129 - 242

Alkaline Phosphatase (IU/L)

<u>Instrument/Reagent</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	166	190.4	22.9	12.0	194	133 - 248	165	219.7	30.1	13.7	226	153 - 286
All Alfa Wassermann Reagents	25	194.2	9.7	5.0	195	135 - 253	24	225.0	9.5	4.2	226	157 - 293
All Horiba Pentra Reagents	18	217.6	8.0	3.7	218	152 - 283	18	253.2	8.7	3.4	254	177 - 330
All Roche Reagents	28	195.9	7.4	3.8	196	137 - 255	26	229.9	6.3	2.7	229	160 - 299
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	155	133 - 248	3	-	-	-	162	153 - 286
All Chemistry Instruments	4	-	-	-	150	104 - 195	4	-	-	-	165	116 - 217
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	194.2	9.7	5.0	195	135 - 253	24	225.0	9.5	4.2	226	157 - 293
Beckman AU												
Beckman AU systems	28	180.6	11.1	6.2	180	126 - 235	28	210.0	13.1	6.3	210	146 - 273
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	217.6	8.0	3.7	218	152 - 283	18	253.2	8.7	3.4	254	177 - 330
Roche Integra												
Roche Integra	16	195.9	8.9	4.5	196	137 - 255	15	229.4	9.6	4.2	228	160 - 299
All Chemistry Instruments	17	195.5	8.7	4.4	196	136 - 255	16	229.1	9.3	4.1	228	160 - 298
Siemens Healthcare ALPi												
Siemens Dimension	19	213.5	6.0	2.8	213	149 - 278	19	248.6	6.5	2.6	249	174 - 324
All Chemistry Instruments	20	213.5	5.8	2.7	213	149 - 278	20	248.7	6.4	2.6	249	174 - 324
VITROS												
VITROS 250,350,400 500,700,750,950	22	152.4	8.5	5.5	152	106 - 199	22	166.5	8.8	5.3	167	116 - 217
All Chemistry Instruments	23	152.9	8.6	5.6	152	107 - 199	23	166.9	8.9	5.3	167	116 - 217

Alkaline Phosphatase (IU/L)

Specimen CH-10

<u>Instrument/Reagent</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	160.6	17.4	10.9	163	112 - 209
All Alfa Wassermann Reagents	24	163.0	7.9	4.8	163	114 - 212
All Horiba Pentra Reagents	18	181.1	7.5	4.1	180	126 - 236
All Roche Reagents	28	163.4	5.5	3.4	163	114 - 213
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	129	112 - 209
All Chemistry Instruments	4	-	-	-	130	89 - 168
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	163.0	7.9	4.8	163	114 - 212
Beckman AU						
Beckman AU systems	28	150.3	9.3	6.2	150	105 - 196
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	181.1	7.5	4.1	180	126 - 236
Roche Integra						
Roche Integra	16	163.1	6.8	4.2	163	114 - 213
All Chemistry Instruments	17	163.0	6.6	4.1	162	114 - 212
Siemens Healthcare ALPi						
Siemens Dimension	19	176.7	4.5	2.5	177	123 - 230
All Chemistry Instruments	20	176.9	4.4	2.5	177	123 - 230
VITROS						
VITROS 250,350,400 500,700,750,950	21	135.4	7.7	5.7	134	94 - 176
All Chemistry Instruments	22	135.7	7.7	5.7	134	95 - 177

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	153	158.6	12.9	8.1	161	126 - 191	153	261.5	29.6	11.3	262	209 - 314
All Alfa Wassermann Reagents	25	146.6	4.8	3.3	147	117 - 176	25	238.0	7.9	3.3	237	190 - 286
All Horiba Pentra Reagents	18	169.7	7.2	4.3	173	135 - 204	18	271.6	13.1	4.8	275	217 - 326
All Roche Reagents	27	165.6	5.6	3.4	166	132 - 199	27	266.2	9.2	3.4	267	212 - 320
Abaxis Piccolo												
Abaxis Piccolo - waived	14	157.1	3.8	2.4	158	125 - 189	14	251.1	5.9	2.3	253	200 - 302
All Chemistry Instruments	15	157.3	3.7	2.4	158	125 - 189	15	251.6	5.9	2.4	253	201 - 302
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	146.6	4.8	3.3	147	117 - 176	25	238.0	7.9	3.3	237	190 - 286
Beckman AU												
Beckman AU systems	27	141.8	4.4	3.1	142	113 - 171	27	228.8	7.0	3.0	229	183 - 275
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	169.7	7.2	4.3	173	135 - 204	18	271.6	13.1	4.8	275	217 - 326
Roche Integra												
Roche Integra	16	165.8	6.0	3.6	166	132 - 199	16	266.1	10.8	4.1	266	212 - 320
Siemens Healthcare												
Siemens Dimension	25	166.1	3.9	2.4	167	132 - 200	25	275.3	6.5	2.4	274	220 - 331
All Chemistry Instruments	26	166.3	4.0	2.4	167	133 - 200	26	275.8	6.8	2.5	275	220 - 331
VITROS												
VITROS 250,350,400 500,700,750,950	22	169.4	5.2	3.1	169	135 - 204	22	317.3	10.0	3.1	318	253 - 381
All Chemistry Instruments	23	169.1	5.3	3.1	169	135 - 203	23	316.7	10.2	3.2	317	253 - 381

AST (SGOT) (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	142	204.9	19.3	9.4	208	163 - 246	142	224.5	23.4	10.4	226	179 - 270
All Alfa Wassermann Reagents	25	189.1	5.4	2.9	190	151 - 227	24	206.8	6.5	3.1	207	165 - 249
All Horiba Pentra Reagents	18	215.5	9.7	4.5	218	172 - 259	18	236.0	10.5	4.4	238	188 - 284
All Roche Reagents	27	210.8	7.8	3.7	211	168 - 253	27	229.0	7.6	3.3	228	183 - 275
Abaxis Piccolo												
Abaxis Piccolo - waived	3	-	-	-	202	163 - 246	3	-	-	-	222	179 - 270
All Chemistry Instruments	4	-	-	-	202	162 - 243	4	-	-	-	221	176 - 266
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	25	189.1	5.4	2.9	190	151 - 227	24	206.8	6.5	3.1	207	165 - 249
Beckman AU												
Beckman AU systems	27	180.3	5.3	2.9	181	144 - 217	27	196.5	5.9	3.0	196	157 - 236
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	18	215.5	9.7	4.5	218	172 - 259	18	236.0	10.5	4.4	238	188 - 284
Roche Integra												
Roche Integra	16	210.6	8.6	4.1	211	168 - 253	16	228.6	8.5	3.7	227	182 - 275
Siemens Healthcare												
Siemens Dimension	24	216.2	4.3	2.0	217	172 - 260	25	235.2	5.3	2.3	235	188 - 283
All Chemistry Instruments	25	216.5	4.5	2.1	217	173 - 260	26	235.5	5.4	2.3	236	188 - 283
VITROS												
VITROS 250,350,400 500,700,750,950	22	232.2	8.8	3.8	233	185 - 279	22	260.1	9.3	3.6	261	208 - 313
All Chemistry Instruments	23	231.8	8.7	3.8	233	185 - 279	23	260.0	9.1	3.5	260	207 - 312

AST (SGOT) (IU/L)

Specimen CH-10

<u><i>Instrument/Reagent</i></u>	<u><i>Labs</i></u>	<u><i>Mean</i></u>	<u><i>SD</i></u>	<u><i>CV</i></u>	<u><i>Median</i></u>	<u><i>Range</i></u>
All Method	142	185.9	16.5	8.9	190	148 - 224
All Alfa Wassermann Reagents	24	172.4	5.0	2.9	173	137 - 207
All Horiba Pentra Reagents	18	197.7	9.4	4.8	196	158 - 238
All Roche Reagents	27	191.4	6.6	3.5	190	153 - 230
Abaxis Piccolo						
Abaxis Piccolo - waived	3	-	-	-	183	148 - 224
All Chemistry Instruments	4	-	-	-	184	146 - 221
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	24	172.4	5.0	2.9	173	137 - 207
Beckman AU						
Beckman AU systems	27	164.1	4.7	2.8	164	131 - 197
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	18	197.7	9.4	4.8	196	158 - 238
Roche Integra						
Roche Integra	16	191.9	7.2	3.8	190	153 - 231
Siemens Healthcare						
Siemens Dimension	25	196.9	5.0	2.5	198	157 - 237
All Chemistry Instruments	26	197.2	5.1	2.6	198	157 - 237
VITROS						
VITROS 250,350,400 500,700,750,950	22	206.2	6.3	3.0	205	164 - 248
All Chemistry Instruments	23	205.9	6.3	3.1	205	164 - 248

Creatine Kinase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	114.5	8.7	7.6	117	80 - 149	67	299.7	25.3	8.4	304	209 - 390
All Roche Reagents	11	119.9	5.5	4.6	119	83 - 156	11	315.4	14.2	4.5	312	220 - 410
Beckman AU												
Beckman AU systems	15	104.1	5.8	5.6	105	72 - 136	15	280.9	16.8	6.0	283	196 - 366
Siemens Healthcare CKI												
Siemens Dimension	16	118.7	2.9	2.5	119	83 - 155	16	317.2	5.7	1.8	318	222 - 413

<u>Instrument/Reagent</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	68	199.0	15.3	7.7	205	139 - 259	68	232.0	18.5	8.0	235	162 - 302
All Roche Reagents	11	208.9	9.7	4.6	207	146 - 272	11	244.1	11.1	4.5	243	170 - 318
Beckman AU												
Beckman AU systems	15	183.9	11.0	6.0	185	128 - 240	15	216.1	12.3	5.7	219	151 - 281
Siemens Healthcare CKI												
Siemens Dimension	16	209.1	3.3	1.6	209	146 - 272	16	244.5	6.8	2.8	246	171 - 318

<u>Instrument/Reagent</u>	Specimen CH-10					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	67	165.2	11.2	6.8	168	115 - 215
All Roche Reagents	11	172.6	8.3	4.8	170	120 - 225
Beckman AU						
Beckman AU systems	15	151.7	8.8	5.8	152	106 - 198
Siemens Healthcare CKI						
Siemens Dimension	16	171.8	4.2	2.4	172	120 - 224

Amylase (IU/L)

Specimen CH-10

All Method	46	76.4	13.0	17.0	80	53 - 100
All Roche Reagents	11	80.1	2.6	3.3	80	56 - 105
Beckman AU						
Beckman AU systems	11	66.5	3.1	4.6	67	46 - 87
Roche Integra						
Roche Integra	6	79.8	3.5	4.4	81	55 - 104
Siemens Healthcare						
Siemens Dimension	8	89.9	1.2	1.4	90	62 - 117
VITROS						
VITROS 250,350,400 500,700,750,950	7	55.7	5.3	9.6	54	38 - 73

Lactate Dehydrogenase (IU/L)

<u>Instrument/Reagent</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	51	311.7	32.5	10.4	326	249 - 375	52	649.0	70.0	10.8	680	519 - 779
All Alfa Wassermann Reagents	4	207.0	54.5	26.3	227	165 - 249	4	482.5	34.0	7.0	486	386 - 579
All Horiba Pentra Reagents	7	326.6	11.6	3.6	327	261 - 392	7	682.7	20.7	3.0	680	546 - 820
All Roche Reagents	21	335.8	7.9	2.4	335	268 - 403	21	698.0	16.0	2.3	698	558 - 838
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	4	207.0	54.5	26.3	227	165 - 249	4	482.5	34.0	7.0	486	386 - 579
Beckman AU												
Beckman AU systems	11	273.0	7.4	2.7	270	218 - 328	11	577.1	13.8	2.4	572	461 - 693
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	326.6	11.6	3.6	327	261 - 392	7	682.7	20.7	3.0	680	546 - 820
Roche cobas c 501												
Roche cobas 6000 / c 501	7	334.6	9.0	2.7	330	267 - 402	7	705.3	13.4	1.9	702	564 - 847
Roche Integra												
Roche Integra	13	336.8	7.7	2.3	338	269 - 405	13	694.5	17.0	2.5	696	555 - 834
Siemens Healthcare LDI												
Siemens Dimension	4	318.0	7.1	2.2	319	254 - 382	4	673.3	16.6	2.5	673	538 - 808

Lactate Dehydrogenase (IU/L)

	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	52	462.8	50.3	10.9	485	370 - 556	51	527.2	53.3	10.1	547	421 - 633
All Alfa Wassermann Reagents	4	350.8	22.9	6.5	354	280 - 421	4	373.0	62.1	16.7	393	298 - 448
All Horiba Pentra Reagents	7	487.6	18.1	3.7	486	390 - 586	7	549.7	17.4	3.2	545	439 - 660
All Roche Reagents	21	500.5	11.3	2.2	500	400 - 601	21	565.5	13.7	2.4	565	452 - 679
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	4	350.8	22.9	6.5	354	280 - 421	4	373.0	62.1	16.7	393	298 - 448
Beckman AU												
Beckman AU systems	11	407.2	11.2	2.8	404	325 - 489	11	462.2	12.5	2.7	460	369 - 555
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	7	487.6	18.1	3.7	486	390 - 586	7	549.7	17.4	3.2	545	439 - 660
Roche cobas c 501												
Roche cobas 6000 / c 501	7	500.4	10.3	2.1	500	400 - 601	7					
Roche Integra												
Roche Integra	13	501.2	12.3	2.5	500	400 - 602	13	566.0	14.8	2.6	565	452 - 680
Siemens Healthcare LDI												
Siemens Dimension	4	475.8	14.2	3.0	476	380 - 571	4	543.3	16.5	3.0	540	434 - 652

Lactate Dehydrogenase (IU/L)**Specimen CH-10**

All Method	52	402.9	40.9	10.2	421	322 - 484
All Alfa Wassermann Reagents	4	322.3	27.7	8.6	320	257 - 387
All Horiba Pentra Reagents	7	421.3	15.7	3.7	418	337 - 506
All Roche Reagents	21	433.3	9.3	2.2	430	346 - 520
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	4	322.3	27.7	8.6	320	257 - 387
Beckman AU						
Beckman AU systems	11	352.5	10.3	2.9	350	282 - 424
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	7	421.3	15.7	3.7	418	337 - 506
Roche cobas c 501						
Roche cobas 6000 / c 501	7	430.9	9.1	2.1	430	344 - 518
Roche Integra						
Roche Integra	13	435.1	9.7	2.2	439	348 - 523
Siemens Healthcare LDI						
Siemens Dimension	4	412.0	7.5	1.8	412	329 - 495

Alpha-fetoprotein (AFP) (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	85.13	11.43	13.4	80.1	50.8 - 119.5	5	264.85	54.59	20.6	238.3	101.0 - 428.7
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	169.10	25.87	15.3	156.5	91.4 - 246.8	5	193.63	22.15	11.4	183.4	127.1 - 260.1
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	140.43	32.53	23.2	125.1	42.8 - 238.1						

Cortisol (µg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	12.56	0.81	6.4	12.6	9.4 - 15.7	17	26.96	1.50	5.6	26.9	20.2 - 33.7
Beckman ACCESS / 2 / Dxl	10	12.54	0.67	5.3	12.6	9.4 - 15.7	10	27.01	1.24	4.6	27.1	20.2 - 33.8
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	19.02	1.09	5.7	18.8	14.2 - 23.8	17	21.43	1.58	7.4	22.1	16.0 - 26.8
Beckman ACCESS / 2 / Dxl	10	19.10	0.86	4.5	18.8	14.3 - 23.9	10	21.79	1.09	5.0	22.1	16.3 - 27.3
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	17	16.02	0.98	6.1	16.0	12.0 - 20.1						
Beckman ACCESS / 2 / Dxl	10	16.16	0.58	3.6	16.3	12.1 - 20.2						

T₃ Uptake (percent)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	48.08	4.82	10.0	47.7	33.6 - 62.6	11	44.67	3.47	7.8	43.2	34.2 - 55.1
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	46.35	3.72	8.0	45.7	35.1 - 57.5	11	45.57	4.02	8.8	44.5	33.5 - 57.7
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	47.40	5.28	11.1	46.7	31.5 - 63.3						

Triiodothyronine (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	1.13	0.27	23.9	1.3	0.3 - 2.0	53	1.61	0.36	22.1	1.8	0.5 - 2.7
All Roche Instruments	10	1.42	0.08	5.9	1.4	1.1 - 1.7	10	1.82	0.13	7.2	1.8	1.4 - 2.3
All TOSOH Instruments	14	4.53	0.23	5.2	4.6	3.8 - 5.3	14	6.47	0.52	8.0	6.6	4.9 - 8.1
Beckman ACCESS / 2 / Dxl	12	1.12	0.18	16.1	1.1	0.5 - 1.7	12	1.75	0.26	14.7	1.8	0.9 - 2.6
TOSOH ST AIA PACK	10	4.52	0.26	5.7	4.6	3.7 - 5.3	10	6.46	0.58	9.0	6.6	4.7 - 8.3
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	1.36	0.26	19.3	1.4	0.5 - 2.2	53	1.43	0.29	20.4	1.6	0.5 - 2.3
All Roche Instruments	10	1.62	0.08	5.2	1.6	1.3 - 1.9	10	1.70	0.10	5.9	1.7	1.4 - 2.0
All TOSOH Instruments	14	5.55	0.41	7.5	5.6	4.3 - 6.8	14	5.72	0.25	4.3	5.8	4.9 - 6.5
Beckman ACCESS / 2 / Dxl	12	1.38	0.13	9.2	1.4	1.0 - 1.8	12	1.49	0.16	10.5	1.5	1.0 - 2.0
TOSOH ST AIA PACK	10	5.56	0.46	8.3	5.6	4.1 - 7.0	10	5.74	0.27	4.7	5.8	4.9 - 6.6
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	53	1.27	0.25	19.8	1.4	0.5 - 2.1						
All Roche Instruments	10	1.52	0.08	5.5	1.5	1.2 - 1.8						
All TOSOH Instruments	14	4.98	0.32	6.4	5.1	4.0 - 6.0						
Beckman ACCESS / 2 / Dxl	12	1.26	0.12	9.3	1.3	0.9 - 1.7						
TOSOH ST AIA PACK	10	5.00	0.35	7.1	5.1	3.9 - 6.1						

Free T₃ (pg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	3.57	0.49	13.6	3.6	2.1 - 5.1	34	4.69	0.61	13.0	4.6	2.8 - 6.6
All TOSOH Instruments	10	5.62	0.16	2.9	5.7	5.1 - 6.2	10	9.32	0.49	5.2	9.2	7.8 - 10.8
Beckman ACCESS / 2 / Dxl	16	3.29	0.17	5.1	3.3	2.7 - 3.9	16	4.32	0.25	5.7	4.3	3.5 - 5.1
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	34	4.13	0.51	12.3	4.1	2.6 - 5.7	34	4.28	0.58	13.6	4.2	2.5 - 6.1
All TOSOH Instruments	10	7.30	0.41	5.6	7.5	6.0 - 8.6	10	7.78	0.38	4.8	7.8	6.6 - 9.0
Beckman ACCESS / 2 / Dxl	16	3.84	0.22	5.7	3.9	3.1 - 4.5	16	3.94	0.23	5.8	3.9	3.2 - 4.7
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	34	3.89	0.51	13.0	3.9	2.3 - 5.5						
All TOSOH Instruments	10	6.66	0.27	4.1	6.7	5.8 - 7.5						
Beckman ACCESS / 2 / Dxl	16	3.64	0.19	5.2	3.6	3.0 - 4.3						

Thyroxine (µg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	32	5.76	0.61	10.6	5.8	4.6 - 7.0	32	11.84	0.96	8.1	12.0	9.4 - 14.3
All TOSOH Instruments	10	5.68	0.56	9.8	5.5	4.5 - 6.9	10	11.86	0.68	5.7	12.2	9.4 - 14.3
Beckman ACCESS / 2 / Dxl	10	6.59	0.67	10.1	6.7	5.2 - 8.0	10	12.26	0.87	7.1	12.3	9.8 - 14.8
	Specimen CH-8						Specimen CH-9					
All Method	32	8.44	0.92	11.0	8.8	6.7 - 10.2	32	9.59	0.89	9.3	9.9	7.6 - 11.6
All TOSOH Instruments	10	8.06	0.94	11.7	7.9	6.4 - 9.7	10	9.40	0.64	6.8	9.2	7.5 - 11.3
Beckman ACCESS / 2 / Dxl	10	9.47	0.69	7.2	9.4	7.5 - 11.4	10	10.42	0.64	6.1	10.5	8.3 - 12.6
	Specimen CH-10											
All Method	32	7.40	0.61	8.2	7.6	5.9 - 8.9						
All TOSOH Instruments	10	7.32	0.72	9.9	7.4	5.8 - 8.8						
Beckman ACCESS / 2 / Dxl	10	8.34	0.56	6.7	8.6	6.6 - 10.1						

Free Thyroxine (ng/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	110	1.74	0.33	19.1	1.6	0.7 - 2.8	111	2.99	0.67	22.4	2.9	0.9 - 5.0
All TOSOH Instruments	18	2.24	0.12	5.3	2.3	1.8 - 2.7	18	3.88	0.35	9.0	3.9	2.8 - 5.0
Abbott Architect	10	1.44	0.10	6.7	1.4	1.1 - 1.8	10	2.83	0.22	7.6	2.8	2.1 - 3.5
Beckman ACCESS / 2 / Dxl	44	1.50	0.07	5.0	1.5	1.2 - 1.8	44	2.37	0.12	5.0	2.4	2.0 - 2.8
Siemens Dimension	16	1.92	0.10	5.5	1.9	1.6 - 2.3	16	3.61	0.16	4.4	3.7	3.1 - 4.1
TOSOH ST AIA PACK	13	2.25	0.13	5.9	2.3	1.8 - 2.7	13	3.92	0.35	8.9	3.9	2.8 - 5.0
Specimen CH-8												
All Method	111	2.37	0.48	20.4	2.2	0.9 - 3.9	111	2.57	0.53	20.6	2.4	0.9 - 4.2
All TOSOH Instruments	18	3.03	0.17	5.5	3.1	2.5 - 3.6	18	3.29	0.24	7.4	3.4	2.5 - 4.1
Beckman ACCESS / 2 / Dxl	10	2.15	0.13	5.9	2.2	1.7 - 2.6	10	2.34	0.13	5.4	2.4	1.9 - 2.8
Siemens Dimension	42	1.95	0.07	3.6	2.0	1.7 - 2.2	44	2.10	0.10	4.8	2.1	1.7 - 2.5
TOSOH AIA PACK	16	2.73	0.15	5.6	2.7	2.2 - 3.2	16	3.06	0.15	4.8	3.0	2.6 - 3.5
TOSOH ST AIA PACK	13	3.05	0.18	5.8	3.1	2.5 - 3.6	13	3.33	0.25	7.4	3.4	2.5 - 4.1
Specimen CH-10												
All Method	111	2.15	0.43	19.9	1.9	0.8 - 3.5						
All TOSOH Instruments	18	2.75	0.12	4.4	2.8	2.3 - 3.2						
Beckman ACCESS / 2 / Dxl	10	1.84	0.05	2.8	1.8	1.6 - 2.0						
Siemens Dimension	45	1.79	0.11	6.0	1.8	1.4 - 2.2						
TOSOH AIA PACK	16	2.43	0.13	5.5	2.4	2.0 - 2.9						
TOSOH ST AIA PACK	13	2.76	0.13	4.8	2.8	2.3 - 3.2						

TSH (μU/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	137	2.49	0.29	11.8	2.5	1.6 - 3.4	138	6.43	0.88	13.7	6.5	3.7 - 9.1
All Abbott Instruments	11	2.43	0.13	5.2	2.4	2.0 - 2.9	11	6.51	0.34	5.3	6.5	5.4 - 7.6
All Roche Instruments	11	2.46	0.10	4.2	2.4	2.1 - 2.8	11	5.71	0.25	4.4	5.8	4.9 - 6.5
All TOSOH Instruments	25	2.88	0.13	4.4	2.9	2.5 - 3.3	25	7.28	0.35	4.8	7.3	6.2 - 8.4
Abbott Architect	11	2.43	0.13	5.2	2.4	2.0 - 2.9	11	6.51	0.34	5.3	6.5	5.4 - 7.6
Beckman ACCESS / 2 / Dxl	50	2.44	0.18	7.4	2.5	1.8 - 3.0	51	6.43	0.86	13.3	6.5	3.8 - 9.1
Siemens Dimension	22	2.20	0.29	13.1	2.1	1.3 - 3.1	21	5.66	0.77	13.6	5.4	3.3 - 8.0
TOSOH ST AIA PACK	16	2.87	0.13	4.5	2.9	2.4 - 3.3	16	7.29	0.36	5.0	7.3	6.1 - 8.4

<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	138	4.34	0.56	12.9	4.3	2.6 - 6.1	139	5.01	0.67	13.4	5.1	2.9 - 7.1
All Abbott Instruments	11	4.25	0.21	4.9	4.3	3.6 - 4.9	11	4.98	0.24	4.7	5.0	4.2 - 5.7
All Roche Instruments	11	4.04	0.17	4.2	4.0	3.5 - 4.6	11	4.54	0.31	6.8	4.5	3.6 - 5.5
All TOSOH Instruments	25	5.01	0.25	5.0	5.0	4.2 - 5.8	23	5.73	0.20	3.5	5.7	5.1 - 6.4
Abbott Architect	11	4.25	0.21	4.9	4.3	3.6 - 4.9	11	4.98	0.24	4.7	5.0	4.2 - 5.7
Beckman ACCESS / 2 / Dxl	51	4.31	0.44	10.1	4.3	3.0 - 5.7	51	5.01	0.54	10.7	5.1	3.3 - 6.7
Siemens Dimension	22	3.78	0.46	12.2	3.7	2.3 - 5.2	22	4.35	0.54	12.4	4.1	2.7 - 6.0
TOSOH ST AIA PACK	16	5.00	0.22	4.4	5.1	4.3 - 5.7	15	5.77	0.19	3.3	5.8	5.2 - 6.4

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	137	3.63	0.44	12.2	3.6	2.2 - 5.0
All Abbott Instruments	11	3.58	0.25	7.0	3.6	2.8 - 4.4
All Roche Instruments	11	3.52	0.31	8.9	3.4	2.5 - 4.5
All TOSOH Instruments	25	4.17	0.19	4.5	4.1	3.6 - 4.8
Abbott Architect	11	3.58	0.25	7.0	3.6	2.8 - 4.4
Beckman ACCESS / 2 / Dxl	51	3.57	0.32	8.8	3.6	2.6 - 4.6
Siemens Dimension	22	3.14	0.38	12.0	3.1	2.0 - 4.3
TOSOH ST AIA PACK	16	4.17	0.14	3.5	4.1	3.7 - 4.7

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-6		Specimen HCG-7	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	137	-	-	137
AimStep Combo Pregnancy	1	-	-	1
Alere hCG Combo Cassette	2	-	-	2
Beckman ACCESS / 2 / DxI	1	-	-	1
Beckman Coulter ICON 20 hCG	67	-	-	67
Beckman Coulter ICON 25 hCG	3	-	-	3
BTNX Rapid Response hCG	1	-	-	1
Cardinal Health SP Brand combo	12	-	-	12
CONSULT diagnostics hCG Combo	11	-	-	11
Henry Schein One Step + Combo	4	-	-	4
McKesson hCG Combo Cassette	2	-	-	2
Medline hCG Combo Test Cassette	2	-	-	2
PSS Select hCG Combo	1	-	-	1
Quidel QuickVue + One-Step	8	-	-	8
Quidel QuickVue One-Step Combo	15	-	-	15
Quidel QuickVue Semi-Q hCG	1	-	-	1
Sekisui OSOM hCG Combo Test	3	-	-	3
Stanbio QUPID Plus	3	-	-	3

Serum hCG – Qualitative

<u>Method</u>	Specimen HCG-8		Specimen HCG-9	
	<u>Positive</u>	<u>Negative</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	-	137	137	-
AimStep Combo Pregnancy	-	1	1	-
Alere hCG Combo Cassette	-	2	2	-
Beckman ACCESS / 2 / DxI	-	1	1	-
Beckman Coulter ICON 20 hCG	-	67	67	-
Beckman Coulter ICON 25 hCG	-	3	3	-
BTNX Rapid Response hCG	-	1	1	-
Cardinal Health SP Brand combo	-	12	12	-
CONSULT diagnostics hCG Combo	-	11	11	-
Henry Schein One Step + Combo	-	4	4	-
McKesson hCG Combo Cassette	-	2	2	-
Medline hCG Combo Test Cassette	-	2	2	-
PSS Select hCG Combo	-	1	1	-
Quidel QuickVue + One-Step	-	8	8	-
Quidel QuickVue One-Step Combo	-	15	15	-
Quidel QuickVue Semi-Q hCG	-	1	1	-
Sekisui OSOM hCG Combo Test	-	3	3	-
Stanbio QUPID Plus	-	3	3	-

Serum hCG – Qualitative

Specimen HCG-10

<u>Method</u>	<u>Positive</u>	<u>Negative</u>
ALL METHODS	137	-
AimStep Combo Pregnancy	1	-
Alere hCG Combo Cassette	2	-
Beckman ACCESS / 2 / DxI	1	-
Beckman Coulter ICON 20 hCG	67	-
Beckman Coulter ICON 25 hCG	3	-
BTNX Rapid Response hCG	1	-
Cardinal Health SP Brand combo	12	-
CONSULT diagnostics hCG Combo	11	-
Henry Schein One Step + Combo	4	-
McKesson hCG Combo Cassette	2	-
Medline hCG Combo Test Cassette	2	-
PSS Select hCG Combo	1	-
Quidel QuickVue + One-Step	8	-
Quidel QuickVue One-Step Combo	15	-
Quidel QuickVue Semi-Q hCG	1	-
Sekisui OSOM hCG Combo Test	3	-
Stanbio QUPID Plus	3	-

Serum hCG – Quantitative (mIU/mL)

<u>Method</u>	Specimen HCG-6						Specimen HCG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	10242.8	4089.1	39.9	8905	0 - 22511	15	1.0	0.5	56.9	1	0 - 3
<u>Method</u>	Specimen HCG-8						Specimen HCG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	15	1.0	0.5	53.5	1	0 - 3	13	3219.1	2173.8	67.5	2865	0 - 9741
<u>Method</u>	Specimen HCG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	14	384.0	187.1	48.7	335	0 - 946						

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	165	105.9	4.2	4.0	106	95 - 117	161	202.8	6.4	3.2	203	182 - 224
All Alfa Wassermann Reagents	22	112.0	2.0	1.8	112	100 - 124	23	208.9	4.6	2.2	209	187 - 230
All Horiba Pentra Reagents	11	105.4	3.5	3.3	105	94 - 116	11	199.1	7.2	3.6	195	179 - 219
All Roche Reagents	17	105.9	3.1	2.9	106	95 - 117	17	201.1	4.7	2.4	200	180 - 222
Alere Cholestech LDX												
Alere Cholestech LDX - waived	35	104.4	3.5	3.4	104	93 - 115	33	207.4	9.1	4.4	207	186 - 229
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	112.0	2.0	1.8	112	100 - 124	23	208.9	4.6	2.2	209	187 - 230
Beckman AU												
Beckman AU systems	23	104.6	2.6	2.4	105	94 - 116	23	200.1	4.6	2.3	200	180 - 221
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	105.4	3.5	3.3	105	94 - 116	11	199.1	7.2	3.6	195	179 - 219
Roche cobas c 501												
Roche cobas 6000 / c 501	8	105.8	2.8	2.7	106	95 - 117	8	200.6	4.5	2.2	200	180 - 221
Roche Integra												
Roche Integra	8	105.6	3.3	3.2	105	95 - 117	8	200.8	5.1	2.6	200	180 - 221
Siemens Healthcare												
Siemens Dimension	22	105.4	4.8	4.6	106	94 - 116	22	201.8	5.5	2.7	202	181 - 222
All Chemistry Instruments	24	105.8	4.9	4.7	106	95 - 117	24	202.1	5.4	2.7	202	181 - 223
VITROS												
VITROS 250,350,400 500,700,750,950	17	102.1	2.7	2.6	102	91 - 113	17	198.8	6.0	3.0	201	178 - 219

Cholesterol, Total (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	149.5	5.0	3.3	149	134 - 165	129	166.6	5.1	3.0	166	149 - 184
All Alfa Wassermann Reagents	23	155.6	4.0	2.6	155	140 - 172	23	172.3	4.6	2.7	172	155 - 190
All Horiba Pentra Reagents	11	147.0	4.7	3.2	146	132 - 162	11	164.5	5.4	3.3	164	148 - 181
All Roche Reagents	17	148.8	3.3	2.2	148	133 - 164	17	165.7	3.8	2.3	166	149 - 183
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	155.2	3.3	2.2	156	139 - 171	5	170.2	4.0	2.3	171	153 - 188
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	23	155.6	4.0	2.6	155	140 - 172	23	172.3	4.6	2.7	172	155 - 190
Beckman AU												
Beckman AU systems	23	147.1	3.3	2.2	147	132 - 162	23	164.6	3.4	2.1	165	148 - 182
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	147.0	4.7	3.2	146	132 - 162	11	164.5	5.4	3.3	164	148 - 181
Roche cobas c 501												
Roche cobas 6000 / c 501	8	147.6	2.7	1.8	146	132 - 163	8	164.8	3.7	2.2	165	148 - 182
Roche Integra												
Roche Integra	8	149.3	3.4	2.3	149	134 - 165	8	166.4	4.1	2.5	167	149 - 184
Siemens Healthcare												
Siemens Dimension	22	147.6	5.0	3.4	147	132 - 163	21	165.6	5.2	3.1	166	149 - 183
All Chemistry Instruments	24	148.0	4.9	3.3	148	133 - 163	23	165.7	5.0	3.0	166	149 - 183
VITROS												
VITROS 250,350,400 500,700,750,950	17	147.1	4.6	3.1	149	132 - 162	17	164.2	4.8	2.9	164	147 - 181

Cholesterol, Total (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	131	132.3	4.8	3.6	132	119 - 146
All Alfa Wassermann Reagents	23	138.0	3.3	2.4	138	124 - 152
All Horiba Pentra Reagents	11	131.5	5.4	4.1	131	118 - 145
All Roche Reagents	17	130.9	3.6	2.7	130	117 - 145
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	132.8	3.2	2.4	132	119 - 147
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	23	138.0	3.3	2.4	138	124 - 152
Beckman AU						
Beckman AU systems	23	130.0	3.1	2.4	130	116 - 143
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	11	131.5	5.4	4.1	131	118 - 145
Roche cobas c 501						
Roche cobas 6000 / c 501	8	130.3	2.7	2.0	130	117 - 144
Roche Integra						
Roche Integra	8	131.1	4.4	3.4	130	118 - 145
Siemens Healthcare						
Siemens Dimension	22	130.3	4.8	3.7	130	117 - 144
All Chemistry Instruments	24	131.1	5.6	4.2	131	118 - 145
VITROS						
VITROS 250,350,400 500,700,750,950	17	129.6	4.6	3.6	129	116 - 143

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	160	44.1	5.9	13.4	45	30 - 58	161	93.7	7.8	8.3	95	65 - 122
All Dex-Sulfate 50,000 MW Methods	33	36.1	3.5	9.8	36	25 - 47	32	99.4	1.4	1.4	100	69 - 130
All Direct Methods	108	46.6	4.2	9.0	48	32 - 61	109	91.1	7.4	8.1	91	63 - 119
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	36.1	3.5	9.8	36	25 - 47	32	99.4	1.4	1.4	100	69 - 130
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	22	48.5	2.3	4.8	49	33 - 64	22	88.8	3.9	4.4	90	62 - 116
Beckman AU Direct HDL / LDL												
Beckman AU systems	22	43.9	2.9	6.6	44	30 - 58	22	88.4	4.7	5.3	89	61 - 115
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	41.4	1.4	3.3	42	28 - 54	11	80.2	2.6	3.2	81	56 - 105
Roche HDL Direct												
Roche cobas 6000 / c 501	8	49.4	2.3	4.6	50	34 - 65	8	98.5	8.4	8.6	102	68 - 129
Roche Integra	7	51.0	2.6	5.1	51	35 - 67	7	104.6	7.3	7.0	102	73 - 136
All Chemistry Instruments	16	50.0	2.4	4.9	50	35 - 65	16	101.3	8.0	7.9	102	70 - 132
Siemens Automated HDL												
Siemens Dimension	20	50.3	1.7	3.3	50	35 - 66	20	97.0	3.0	3.0	98	67 - 127
All Chemistry Instruments	22	50.4	1.6	3.3	51	35 - 66	22	97.1	3.0	3.1	98	67 - 127
VITROS												
VITROS 250,350,400 500,700,750,950	5	44.8	3.0	6.8	45	31 - 59	5	98.0	7.7	7.9	97	68 - 128
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	12	45.8	2.4	5.3	46	32 - 60	12	99.9	5.8	5.8	98	69 - 130

Cholesterol, HDL (mg/dL)

<u>Reagent/Instrument</u>	<u>Specimen CH-8</u>						<u>Specimen CH-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	130	66.8	5.8	8.7	67	46 - 87	129	75.4	6.5	8.6	75	52 - 99
All Dex-Sulfate 50,000 MW Methods	5	62.8	5.4	8.7	62	43 - 82	5	73.2	3.0	4.1	71	51 - 96
All Direct Methods	108	66.7	5.9	8.9	67	46 - 87	107	74.9	6.5	8.6	74	52 - 98
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	62.8	5.4	8.7	62	43 - 82	5	73.2	3.0	4.1	71	51 - 96
Alfa Wass. ACE HDL-C / LDL-C												
Alfa Wassermann ACE Alera/Axcel	22	67.0	3.3	4.9	67	46 - 88	22	74.4	4.6	6.1	75	52 - 97
Beckman AU Direct HDL / LDL												
Beckman AU systems	22	63.2	3.2	5.1	64	44 - 83	22	71.0	3.7	5.2	72	49 - 93
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	59.4	2.5	4.2	59	41 - 78	11	66.1	2.5	3.9	67	46 - 86
Roche HDL Direct												
Roche cobas 6000 / c 501	8	72.8	2.8	3.8	74	50 - 95	8	81.5	3.5	4.3	82	57 - 106
Roche Integra	7	75.0	4.4	5.8	76	52 - 98	7	84.4	5.1	6.0	84	59 - 110
All Chemistry Instruments	16	73.6	3.6	4.9	74	51 - 96	16	82.8	4.2	5.1	83	57 - 108
Siemens Automated HDL												
Siemens Dimension	20	71.5	2.1	2.9	72	50 - 93	19	79.7	1.6	2.1	80	55 - 104
All Chemistry Instruments	22	71.5	2.0	2.9	72	50 - 93	21	79.9	1.7	2.1	80	55 - 104
VITROS												
VITROS 250,350,400 500,700,750,950	5	67.8	5.3	7.8	67	47 - 89	5	77.4	6.4	8.3	78	54 - 101
VITROS dHDL Slide												
VITROS 250,350,400 500,700,750,950	12	69.5	4.4	6.3	70	48 - 91	12	80.0	6.0	7.5	79	56 - 104

Cholesterol, HDL (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	130	58.3	5.4	9.3	58	40 - 76
All Dex-Sulfate 50,000 MW Methods	5	50.4	3.2	6.4	52	35 - 66
All Direct Methods	108	58.5	5.4	9.3	58	40 - 77
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	50.4	3.2	6.4	52	35 - 66
Alfa Wass. ACE HDL-C / LDL-C						
Alfa Wassermann ACE Alera/Axcel	22	59.0	3.3	5.5	59	41 - 77
Beckman AU Direct HDL / LDL						
Beckman AU systems	22	54.6	2.9	5.2	55	38 - 72
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	11	52.6	2.4	4.6	53	36 - 69
Roche HDL Direct						
Roche cobas 6000 / c 501	8	63.1	2.8	4.4	64	44 - 83
Roche Integra	7	66.4	3.4	5.1	67	46 - 87
All Chemistry Instruments	16	64.5	3.4	5.2	65	45 - 84
Siemens Automated HDL						
Siemens Dimension	19	63.2	1.7	2.7	63	44 - 83
All Chemistry Instruments	21	63.3	1.7	2.7	63	44 - 83
VITROS						
VITROS 250,350,400 500,700,750,950	5	58.6	4.3	7.4	58	41 - 77
VITROS dHDL Slide						
VITROS 250,350,400 500,700,750,950	12	60.4	3.7	6.1	60	42 - 79

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	163	138.2	8.1	5.8	138	103 - 173	163	237.5	14.4	6.1	236	178 - 297
All Alfa Wassermann Reagents	22	144.4	3.4	2.4	145	108 - 181	22	240.5	5.4	2.3	240	180 - 301
All Horiba Pentra Reagents	11	138.5	6.3	4.5	139	103 - 174	11	231.6	9.4	4.1	231	173 - 290
All Roche Reagents	17	140.4	2.2	1.6	140	105 - 176	17	232.7	4.4	1.9	233	174 - 291
Alere Cholestech LDX												
Alere Cholestech LDX - waived	33	133.5	3.6	2.7	133	100 - 167	32	235.3	5.2	2.2	236	176 - 295
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	144.4	3.4	2.4	145	108 - 181	22	240.5	5.4	2.3	240	180 - 301
Beckman AU												
Beckman AU systems	23	137.4	4.8	3.5	138	103 - 172	23	235.4	7.0	3.0	237	176 - 295
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	138.5	6.3	4.5	139	103 - 174	11	231.6	9.4	4.1	231	173 - 290
Roche cobas c 501												
Roche cobas 6000 / c 501	8	139.5	2.4	1.7	139	104 - 175	8	230.9	5.0	2.2	229	173 - 289
Roche Integra												
Roche Integra	8	141.3	1.8	1.3	142	105 - 177	8	234.3	3.4	1.4	234	175 - 293
Siemens Healthcare												
Siemens Dimension	22	127.3	2.3	1.8	128	95 - 160	22	223.8	3.2	1.4	224	167 - 280
All Chemistry Instruments	22	127.3	2.3	1.8	128	95 - 160	22	223.8	3.2	1.4	224	167 - 280
VITROS												
VITROS 250,350,400 500,700,750,950	17	150.6	4.5	3.0	152	112 - 189	17	270.2	7.4	2.7	272	202 - 338

Triglycerides (mg/dL)

<u>Reagent/Instrument</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	132	183.8	11.0	6.0	183	137 - 230	132	201.7	12.6	6.3	201	151 - 253
All Alfa Wassermann Reagents	22	188.4	4.3	2.3	190	141 - 236	22	205.0	4.8	2.4	206	153 - 257
All Horiba Pentra Reagents	11	180.5	6.7	3.7	182	135 - 226	11	197.9	8.0	4.0	200	148 - 248
All Roche Reagents	17	182.5	2.9	1.6	183	136 - 229	17	199.2	3.2	1.6	199	149 - 249
Alere Cholestech LDX												
Alere Cholestech LDX - waived	5	181.8	5.3	2.9	181	136 - 228	5	197.8	6.1	3.1	195	148 - 248
Alfa Wassermann												
Alfa Wassermann ACE Alera/Axcel	22	188.4	4.3	2.3	190	141 - 236	22	205.0	4.8	2.4	206	153 - 257
Beckman AU												
Beckman AU systems	22	181.8	4.3	2.3	182	136 - 228	23	199.1	7.0	3.5	201	149 - 249
Horiba ABX Pentra												
Horiba ABX Pentra 400 / C400	11	180.5	6.7	3.7	182	135 - 226	11	197.9	8.0	4.0	200	148 - 248
Roche cobas c 501												
Roche cobas 6000 / c 501	8	182.0	3.2	1.7	181	136 - 228	8	198.4	3.9	2.0	197	148 - 248
Roche Integra												
Roche Integra	8	182.8	3.0	1.6	183	137 - 229	8	199.8	2.7	1.4	200	149 - 250
Siemens Healthcare												
Siemens Dimension	22	171.4	2.8	1.6	172	128 - 215	22	188.3	2.9	1.5	188	141 - 236
All Chemistry Instruments	22	171.4	2.8	1.6	172	128 - 215	22	188.3	2.9	1.5	188	141 - 236
VITROS												
VITROS 250,350,400 500,700,750,950	17	204.5	6.5	3.2	206	153 - 256	17	225.8	6.5	2.9	226	169 - 283

Triglycerides (mg/dL)**Specimen CH-10**

<u>Reagent/Instrument</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	131	165.9	10.0	6.0	166	124 - 208
All Alfa Wassermann Reagents	21	171.1	2.9	1.7	172	128 - 214
All Horiba Pentra Reagents	11	163.5	6.8	4.2	165	122 - 205
All Roche Reagents	17	165.9	3.2	1.9	164	124 - 208
Alere Cholestech LDX						
Alere Cholestech LDX - waived	5	162.4	2.6	1.6	163	121 - 203
Alfa Wassermann						
Alfa Wassermann ACE Alera/Axcel	21	171.1	2.9	1.7	172	128 - 214
Beckman AU						
Beckman AU systems	22	164.5	4.1	2.5	166	123 - 206
Horiba ABX Pentra						
Horiba ABX Pentra 400 / C400	11	163.5	6.8	4.2	165	122 - 205
Roche cobas c 501						
Roche cobas 6000 / c 501	8	165.1	4.1	2.5	164	123 - 207
Roche Integra						
Roche Integra	8	166.5	2.3	1.4	167	124 - 209
Siemens Healthcare						
Siemens Dimension	22	153.8	2.6	1.7	154	115 - 193
All Chemistry Instruments	22	153.8	2.6	1.7	154	115 - 193
VITROS						
VITROS 250,350,400 500,700,750,950	17	182.9	5.8	3.2	183	137 - 229

Acetaminophen (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	46.80	0.14	0.3	46.8	35.1 - 58.5	5	108.05	1.77	1.6	108.1	81.0 - 135.1
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	73.50	0.01	0.0	73.5	55.1 - 91.9	5	83.40	1.70	2.0	83.4	62.5 - 104.3
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	60.75	1.48	2.4	60.8	45.5 - 76.0						

Carbamazepine (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	6.30	0.01	0.0	6.3	4.7 - 7.9	5	12.65	0.35	2.8	12.7	9.4 - 15.9
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	9.10	0.28	3.1	9.1	6.8 - 11.4	5	10.50	0.28	2.7	10.5	7.8 - 13.2
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	8.00	0.28	3.5	8.0	6.0 - 10.0						

Digoxin (ng/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	0.80	0.14	17.7	0.9	0.6 - 1.0	6	1.83	0.31	17.0	1.9	1.4 - 2.2
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	1.18	0.22	18.9	1.2	0.9 - 1.5	6	1.40	0.18	13.0	1.4	1.1 - 1.7
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	6	1.03	0.17	16.7	1.1	0.8 - 1.3						

Gentamicin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	3.10	0.01	0.0	3.1	2.1 - 4.1	5	7.35	0.21	2.9	7.4	5.5 - 9.2
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	5.00	0.14	2.8	5.0	3.7 - 6.3	5	5.95	0.35	5.9	6.0	4.4 - 7.5
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	4.40	0.14	3.2	4.4	3.3 - 5.5						

Lithium (mmol/L)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.95	0.07	7.4	1.0	0.6 - 1.3	5	2.20	0.01	0.0	2.2	1.7 - 2.7
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.50	0.01	0.0	1.5	1.2 - 1.8	5	1.70	0.01	0.0	1.7	1.3 - 2.1
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.25	0.07	5.7	1.3	0.9 - 1.6						

Phenobarbital (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	16.9	Not graded	1	-	-	-	40.2	Not graded
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	26.5	Not graded	1	-	-	-	30.8	Not graded
<u>Method</u>	Specimen CH-10											
All Method	1	-	-	-	23.3	Not graded						

Phenytoin (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	12.45	0.37	3.0	12.6	9.3 - 15.6	6	24.88	1.58	6.3	25.2	18.6 - 31.1
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	6	18.28	0.45	2.5	18.3	13.7 - 22.9	6	20.40	0.65	3.2	20.4	15.3 - 25.5
<u>Method</u>	Specimen CH-10											
All Method	6	15.43	0.35	2.3	15.5	11.5 - 19.3						

Salicylate (mg/dL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	13.5	Not graded	1	-	-	-	26.4	Not graded
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	19.2	Not graded	1	-	-	-	21.7	Not graded
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	17.1	Not graded						

Theophylline (µg/mL)

<u>Method</u>	Specimen CH-6						Specimen CH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	16.2	Not graded	1	-	-	-	30.4	Not graded
<u>Method</u>	Specimen CH-8						Specimen CH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	22.3	Not graded	1	-	-	-	25.6	Not graded
<u>Method</u>	Specimen CH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	1	-	-	-	20.7	Not graded						

Valproic Acid (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	58.58	5.15	8.8	57.1	43.9 - 73.3	6	104.23	7.19	6.9	104.0	78.1 - 130.3	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	6	79.00	3.54	4.5	77.8	59.2 - 98.8	6	86.85	6.76	7.8	85.4	65.1 - 108.6	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	6	71.50	5.75	8.0	69.2	53.6 - 89.4							

Vancomycin (µg/mL)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-6				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-7			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	15.07	0.75	5.0	15.5	11.3 - 18.9	5	42.60	2.17	5.1	43.8	31.9 - 53.3	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-8				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-9			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>SD</u>				<u>CV</u>	<u>Median</u>	<u>Range</u>	
All Method	5	26.63	1.70	6.4	27.3	19.9 - 33.3	5	31.23	0.91	2.9	31.1	23.4 - 39.1	
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	Specimen CH-10				<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
			<u>SD</u>	<u>CV</u>	<u>Median</u>								
All Method	5	21.83	1.50	6.9	22.7	16.3 - 27.3							

Apolipoprotein A1 (mg/dL)

<u>Method</u>	Specimen LP-3						Specimen LP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	93	Not graded	2	-	-	-	140	Not graded

Apolipoprotein B (mg/dL)

<u>Method</u>	Specimen LP-3						Specimen LP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	50.5	0.7	1.4	51	35 - 66	5	67.5	2.1	3.1	68	47 - 88

Neonatal Bilirubin, Total (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	16.78	0.87	5.2	16.9	13.4 - 20.2	28	5.82	0.37	6.4	5.8	4.6 - 7.0
No Reagent Required												
Bilirubinometer / Unistat	17	17.05	0.72	4.2	17.2	13.6 - 20.5	17	5.81	0.33	5.7	5.8	4.6 - 7.0
All Chemistry Instruments	21	17.00	0.69	4.0	17.1	13.6 - 20.4	21	5.87	0.36	6.1	5.9	4.6 - 7.1
<u>Method</u>	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	10.29	0.85	8.3	10.4	8.2 - 12.4	29	0.05	0.09	180.4	0.0	0.0 - 0.5
No Reagent Required												
Bilirubinometer / Unistat	18	10.58	0.52	4.9	10.5	8.4 - 12.7	18	0.00	0.01	0.0	0.0	0.0 - 0.4
All Chemistry Instruments	22	10.60	0.51	4.8	10.5	8.4 - 12.8	22	0.04	0.09	222.0	0.0	0.0 - 0.5
<u>Method</u>	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	29	0.06	0.12	189.7	0.0	0.0 - 0.5						
No Reagent Required												
Bilirubinometer / Unistat	18	0.00	0.01	0.0	0.0	0.0 - 0.4						
All Chemistry Instruments	22	0.06	0.13	219.5	0.0	0.0 - 0.5						

Bilirubin, Direct (mg/dL)

<u>Method</u>	Specimen NB-6						Specimen NB-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	3.98	0.53	13.2	3.8	2.9 - 5.1	10	1.64	0.26	15.8	1.6	1.1 - 2.2
<u>Method</u>	Specimen NB-8						Specimen NB-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	4.83	0.37	7.7	4.8	4.0 - 5.6	10	0.13	0.16	126.8	0.1	0.0 - 0.5
<u>Method</u>	Specimen NB-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	0.14	0.15	113.2	0.1	0.0 - 0.5						

Blood Gases – pH

<u>Method</u>	Specimen BG-6						Specimen BG-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.475	0.006	0.1	7.48	7.43 - 7.52	11	7.488	0.005	0.1	7.49	7.44 - 7.53
<u>Method</u>	Specimen BG-8						Specimen BG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	7.488	0.010	0.1	7.49	7.44 - 7.53	11	7.183	0.010	0.1	7.19	7.14 - 7.23
<u>Method</u>	Specimen BG-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	11	7.480	0.001	0.0	7.48	7.44 - 7.52						

Blood Gases - pCO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-6</u>				<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-7</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	19.53	1.58	8.1	20.0	14.5 - 24.6	11	28.70	0.57	2.0	28.9	23.7 - 33.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-8</u>				<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-9</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	25.28	0.39	1.6	25.4	20.2 - 30.3	11	56.98	1.76	3.1	56.8	51.9 - 62.0
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-10</u>				<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-9</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	19.93	0.84	4.2	20.0	14.9 - 25.0						

Blood Gases - pO₂ (mmHg)

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-6</u>				<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-7</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	164.50	12.92	7.9	161.0	125.7 - 203.3	11	113.75	5.91	5.2	116.0	96.0 - 131.5
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-8</u>				<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-9</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	137.50	2.38	1.7	137.5	130.3 - 144.7	11	80.25	6.13	7.6	80.0	61.8 - 98.7
<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-10</u>				<u>Labs</u>	<u>Mean</u>	<u>Specimen BG-9</u>			
			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>			<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	159.00	5.48	3.4	159.5	142.5 - 175.5						

Blood Gases – Ionized Calcium (mmol/L)

One participant reported results for Blood Gases-Ionized Calcium. The vendor mean assay values for specimens BG-6 through BG-10 are: 0.76 mmol/L, 0.86 mmol/L, 1.2 mmol/L, 2.1 mmol/L, and 0.76 mmol/L, respectively.

Blood Gases - Chloride (mmol/L)

One participant reported results for Blood Gases-Chloride. The vendor mean assay values for specimens BG-6 through BG-10 are: 103 mmol/L, 116 mmol/L, 84 mmol/L, 75 mmol/L, and 103 mmol/L, respectively.

Blood Gases - Potassium (mmol/L)

One participant reported results for Blood Gases-Potassium. The vendor mean assay values for specimens BG-6 through BG-10 are: 6.1 mmol/L, 6.6 mmol/L, 4.3 mmol/L, 2.7 mmol/L, and 6.1 mmol/L, respectively.

Blood Gases – Sodium (mmol/L)

One participant reported results for Blood Gases-Sodium. The vendor mean assay values for specimens BG-6 through BG-10 are: 145 mmol/L, 169 mmol/L, 147 mmol/L, 126 mmol/L, and 145 mmol/L, respectively.

Blood Gases – Lactate (mmol/L)

<u>Method</u>	<u>Specimen BG-6</u>						<u>Specimen BG-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.15	0.07	6.1	1.2	0.9 - 1.4	5	0.95	0.07	7.4	1.0	0.7 - 1.2
<u>Method</u>	<u>Specimen BG-8</u>						<u>Specimen BG-9</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.50	0.14	9.4	1.5	1.0 - 2.0	5	4.60	0.01	0.0	4.6	4.5 - 4.7
<u>Method</u>	<u>Specimen BG-10</u>											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	5	1.15	0.07	6.1	1.2	0.9 - 1.4						

Afinion Glycohemoglobin (percent)

<u>Method</u>	<u>Specimen AFN-3</u>						<u>Specimen AFN-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	77	6.21	0.16	2.5	6.2	5.9 - 6.6	76	8.23	0.18	2.2	8.3	7.8 - 8.7
All Alere Afinion Analyzers	77	6.21	0.16	2.5	6.2	5.9 - 6.6	76	8.23	0.18	2.2	8.3	7.8 - 8.7
Alere Afinion 2	12	6.18	0.19	3.0	6.3	5.8 - 6.5	12	8.21	0.19	2.3	8.3	7.7 - 8.7
Alere Afinion AS100	65	6.22	0.15	2.4	6.2	5.9 - 6.6	64	8.24	0.18	2.2	8.3	7.8 - 8.7

Glycohemoglobin (percent)

<u>Method</u>	<u>Specimen GH-3</u>						<u>Specimen GH-4</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	104	10.73	0.33	3.1	10.7	10.1 - 11.3	107	6.13	0.23	3.8	6.1	5.8 - 6.5
All Bio-Rad Methods	5	10.96	0.38	3.5	11.0	10.4 - 11.6	5	6.38	0.23	3.6	6.3	6.0 - 6.7
All Enzymatic A1c Methods	5	10.05	0.72	7.2	10.3	9.5 - 10.6	5	5.65	0.10	1.8	5.7	5.3 - 6.0
All Hemoglobin A1c Methods	101	10.74	0.33	3.0	10.7	10.2 - 11.3	103	6.15	0.22	3.5	6.2	5.8 - 6.5
All Roche Methods	9	10.76	0.30	2.8	10.7	10.2 - 11.3	9	5.84	0.19	3.3	5.9	5.5 - 6.2
All TOSOH Methods	14	10.80	0.20	1.9	10.8	10.2 - 11.4	14	6.13	0.11	1.9	6.1	5.8 - 6.5
Beckman AU A1c	8	10.51	0.33	3.2	10.6	9.9 - 11.1	8	6.06	0.16	2.6	6.1	5.7 - 6.4
Bio-Rad D-10 HbA1C	5	10.96	0.38	3.5	11.0	10.4 - 11.6	5	6.38	0.23	3.6	6.3	6.0 - 6.7
Roche Integra A1C	5	10.82	0.31	2.9	10.7	10.2 - 11.4	5	5.94	0.18	3.1	5.9	5.6 - 6.3
Siemens DCA Vantage	44	10.80	0.26	2.4	10.8	10.2 - 11.4	45	6.22	0.18	3.0	6.2	5.9 - 6.6
Siemens Dimension HA1C	5	10.63	0.68	6.4	10.4	10.0 - 11.2	5	6.10	0.22	3.5	6.2	5.7 - 6.5
Siemens Dimension HB1C	11	10.39	0.29	2.8	10.4	9.8 - 11.0	11	6.17	0.25	4.0	6.2	5.8 - 6.5
TOSOH G8	14	10.80	0.20	1.9	10.8	10.2 - 11.4	14	6.13	0.11	1.9	6.1	5.8 - 6.5

Whole Blood Glucose (mg/dL)

<u>Method</u>	<u>Specimen WBG-6</u>						<u>Specimen WBG-7</u>					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	243	293.5	34.2	11.7	300	234 - 353	247	102.3	16.0	15.6	105	81 - 123
All Abbott Methods	33	277.6	20.4	7.3	276	222 - 334	34	86.8	7.3	8.4	86	69 - 105
All Arkray Methods	12	300.2	15.5	5.2	298	240 - 361	14	116.5	3.2	2.7	117	93 - 140
All Bayer Methods	26	235.1	18.0	7.7	230	188 - 283	26	79.7	5.6	7.0	78	63 - 96
All Hemocue Methods	53	304.5	8.3	2.7	304	243 - 366	52	122.0	7.0	5.7	122	97 - 147
All Lifescan Methods	20	343.0	22.2	6.5	344	274 - 412	19	109.2	6.2	5.6	110	87 - 131
All Roche Methods	23	308.2	7.6	2.5	309	246 - 370	23	107.6	2.7	2.5	108	86 - 130
Abbott FreeStyle Lite/Freedom Lite	7	293.1	7.5	2.6	289	234 - 352	7	96.6	2.4	2.5	97	77 - 116
Abbott FreeStyle Precision Pro	19	273.9	23.3	8.5	269	219 - 329	20	84.2	6.2	7.3	84	67 - 102
Abbott Precision XceedPro	7	272.1	12.9	4.7	271	217 - 327	7	84.4	4.9	5.8	84	67 - 102
Arkray Platinum	12	300.2	15.5	5.2	298	240 - 361	14	116.5	3.2	2.7	117	93 - 140
Bayer Contour	26	235.1	18.0	7.7	230	188 - 283	26	79.7	5.6	7.0	78	63 - 96
HemoCue Glucose 201	52	304.3	8.1	2.7	304	243 - 366	51	121.6	6.5	5.3	121	97 - 146
Home Diagnostics True Balance / TrueTrack	12	581.4	19.4	3.3	584	465 - 698	12	265.3	10.3	3.9	265	212 - 319
Lifescan One Touch Ultra/2/Mini	19	345.5	19.8	5.7	344	276 - 415	18	109.8	5.6	5.1	110	87 - 132
Medline EvenCare G2 / G3	12	299.8	26.6	8.9	306	239 - 360	13	110.4	7.9	7.1	111	88 - 133
NOVA Biomedical StatStrip	21	234.4	70.4	30.0	257	187 - 282	21	88.0	3.3	3.8	86	70 - 106
Quintet / AC	23	324.0	13.0	4.0	321	259 - 389	23	104.7	4.7	4.5	105	83 - 126
Roche Accu-Chek Inform II	7	310.9	9.3	3.0	310	248 - 374	7	107.1	1.6	1.5	108	85 - 129
Roche Accu-Chek Performa	11	307.6	6.4	2.1	306	246 - 370	11	108.5	3.0	2.7	109	86 - 131
True Metrix Pro	15	282.7	18.7	6.6	286	226 - 340	15	87.8	3.1	3.5	87	70 - 106

Whole Blood Glucose (mg/dL)

<u>Method</u>	Specimen WBG-8						Specimen WBG-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	61.5	4.6	7.5	61	49 - 74	18	53.4	5.2	9.7	52	41 - 66
All Lifescan Methods	13	59.9	2.8	4.7	60	47 - 72	13	51.2	2.4	4.7	51	39 - 64
All Roche Methods	3	-	-	-	69	55 - 84	3	-	-	-	64	50 - 76
Lifescan One Touch Ultra/2/Mini	13	59.9	2.8	4.7	60	47 - 72	13	51.2	2.4	4.7	51	39 - 64
Medline EvenCare G2 / G3	1	-	-	-	63	49 - 74	1	-	-	-	58	41 - 66
Roche Accu-Chek Inform II	2	-	-	-	70	49 - 74	2	-	-	-	63	41 - 66
Roche Accu-Chek Performa	1	-	-	-	69	49 - 74	1	-	-	-	64	41 - 66
True Metrix Pro	1	-	-	-	56	49 - 74	1	-	-	-	49	41 - 66

<u>Method</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	435.5	18.9	4.3	439	348 - 523
All Lifescan Methods	13	442.8	13.6	3.1	444	354 - 532
All Roche Methods	3	-	-	-	416	336 - 505
Lifescan One Touch Ultra/2/Mini	13	442.8	13.6	3.1	444	354 - 532
Medline EvenCare G2 / G3	1	-	-	-	389	348 - 523
Roche Accu-Chek Inform II	2	-	-	-	425	348 - 523
Roche Accu-Chek Performa	1	-	-	-	411	348 - 523
True Metrix Pro	1	-	-	-	433	348 - 523

C-Peptide (ng/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	8	8.136	0.903	11.1	7.73	6.32 - 9.95	8	6.252	0.701	11.2	6.00	4.84 - 7.66

Insulin (μU/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	87.55	21.68	24.8	77.7	44.1 - 131.0	10	54.09	15.64	28.9	46.2	22.8 - 85.4
Beckman ACCESS / 2 / Dxl	6	75.57	3.66	4.8	76.1	68.2 - 82.9	6	45.13	2.65	5.9	45.5	39.8 - 50.5

Parathyroid Hormone, Intact (pg/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	28	186.0	22.1	11.9	188	141 - 231	30	117.7	15.6	13.3	117	86 - 149
All Roche Methods	5	130.0	28.2	21.7	131	73 - 187	5	103.8	30.7	29.6	94	42 - 166
All TOSOH Instruments	6	209.0	7.6	3.6	211	193 - 225	6	127.5	6.7	5.3	127	114 - 141
Beckman ACCESS / 2 / Dxl	13	180.2	9.2	5.1	182	161 - 199	13	111.7	5.0	4.5	111	101 - 122

Vitamin D (25-Hydroxy) (ng/mL)

<u>Method</u>	Specimen CIP-3						Specimen CIP-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	94	70.59	12.96	18.4	69.8	44.6 - 96.6	95	43.66	7.18	16.4	43.1	29.3 - 58.1
All Roche Instruments	10	63.32	23.42	37.0	71.3	16.4 - 110.2	10	41.31	10.99	26.6	45.1	19.3 - 63.3
All TOSOH Instruments	14	70.76	4.55	6.4	70.4	61.6 - 79.9	14	44.64	3.34	7.5	44.2	37.9 - 51.4
Abbott Architect	7	53.31	20.02	37.6	59.4	13.2 - 93.4	7	35.56	11.30	31.8	40.3	12.9 - 58.2
Beckman ACCESS / 2 / Dxl	43	72.65	7.45	10.3	71.0	57.7 - 87.6	43	44.45	5.00	11.2	43.5	34.4 - 54.5
Roche cobas e 411	6	57.83	25.69	44.4	54.5	6.4 - 109.3	6	40.38	12.12	30.0	42.1	16.1 - 64.7
Siemens Dimension	6	54.33	4.11	7.6	54.4	46.1 - 62.6	6	35.10	2.06	5.9	34.9	30.9 - 39.3
TOSOH AIA PACK	5	70.74	4.74	6.7	69.7	61.2 - 80.3	5	44.32	3.68	8.3	44.1	36.9 - 51.7
TOSOH ST AIA PACK	9	70.78	4.74	6.7	71.3	61.2 - 80.3	9	44.81	3.35	7.5	44.3	38.1 - 51.6

Bioavailable Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-3						Specimen SHB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	285	Not graded	2	-	-	-	108	Not graded

Free Testosterone (pg/mL)

<u>Method</u>	Specimen SHB-3						Specimen SHB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	45.33	51.23	113.0	30.6	0.0 - 147.8	5	27.93	17.91	64.1	32.1	0.0 - 63.8

Sex Hormone Binding Globulin (SHBG) (nmol/L)

<u>Method</u>	Specimen SHB-3						Specimen SHB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	49.725	8.766	17.6	46.40	23.42 - 76.03	13	40.074	6.538	16.3	38.40	20.45 - 59.69
Beckman ACCESS / 2 / Dxl	10	50.150	9.962	19.9	46.25	20.26 - 80.04	10	40.160	7.338	18.3	38.70	18.14 - 62.18

Testosterone (ng/dL)

<u>Method</u>	Specimen SHB-3						Specimen SHB-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	597.3	76.4	12.8	570	418 - 777	12	239.2	27.4	11.5	234	167 - 311
Beckman ACCESS / 2 / Dxl	10	584.4	73.8	12.6	556	409 - 760	10	232.6	24.5	10.5	229	162 - 303

BNP (pg/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	19	4496.76	696.15	15.5	2500.0	3104.4 - 5889.1	19	939.18	376.58	40.1	367.0	186.0 - 1692.4
Quidel Triage	14	2363.57	582.13	24.6	2235.0	1199.3 - 3527.9	14	347.00	45.88	13.2	352.5	255.2 - 438.8
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	3762.00	1282.85	34.1	1190.0	1196.2 - 6327.8	10	1978.25	702.27	35.5	662.0	573.7 - 3382.8
Quidel Triage	6	1094.17	102.68	9.4	1100.0	820.6 - 1367.8	6	620.67	40.67	6.6	623.5	465.5 - 775.9
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	10	164.25	49.91	30.4	76.5	64.4 - 264.1						
Quidel Triage	6	62.38	13.79	22.1	62.6	34.7 - 90.0						

CK-MB (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	92.93	21.15	22.8	42.8	29.4 - 156.4	12	16.67	3.07	18.4	8.5	7.4 - 25.9
Quidel Triage	13	32.13	5.32	16.6	31.4	16.1 - 48.1	13	6.53	1.14	17.5	6.5	3.1 - 10.0
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	48.28	9.94	20.6	33.0	18.4 - 78.1	12	26.87	5.11	19.0	11.6	11.5 - 42.3
Quidel Triage	13	19.25	5.02	26.1	18.2	4.1 - 34.4	12	10.28	1.04	10.1	10.7	7.1 - 13.4
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	12	6.51	2.03	31.2	3.8	0.4 - 12.7						
Quidel Triage	12	2.74	0.59	21.6	2.8	0.9 - 4.6						

D-Dimer (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	100	831.0	8.5	1.0	1770	581 - 1081	99	396.0	2.8	0.7	575	277 - 515
Instrumentation Laboratory (IL) ACL Series	5	831.0	8.5	1.0	831	581 - 1081	5	396.0	2.8	0.7	396	277 - 515
Quidel Triage	95	1792.9	190.4	10.6	1770	1255 - 2331	94	569.0	50.9	9.0	576	398 - 740
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	93	577.0	4.2	0.7	1080	403 - 751	94	476.5	16.3	3.4	756	333 - 620
Instrumentation Laboratory (IL) ACL Series	5	577.0	4.2	0.7	577	403 - 751	5	476.5	16.3	3.4	477	333 - 620
Quidel Triage	88	1083.5	101.2	9.3	1080	758 - 1409	89	758.7	68.8	9.1	756	531 - 987
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	91	317.0	31.1	9.8	330	221 - 413						
Instrumentation Laboratory (IL) ACL Series	5	317.0	31.1	9.8	317	221 - 413						
Quidel Triage	93	330.4	48.2	14.6	330	231 - 430						

Myoglobin (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	468.97	105.01	22.4	383.0	258.9 - 679.0	13	85.87	12.30	14.3	91.4	60.1 - 111.7
Alere Triage	10	369.20	53.75	14.6	372.0	258.4 - 480.0	10	97.15	16.50	17.0	91.7	64.1 - 130.2
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	13	251.63	47.34	18.8	229.4	156.9 - 346.4	13	142.50	29.88	21.0	143.0	82.7 - 202.3
Alere Triage	10	230.10	35.06	15.2	231.5	159.9 - 300.3	10	135.71	39.57	29.2	143.5	56.5 - 214.9
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	13	35.50	4.04	11.4	41.5	24.8 - 46.2						
Alere Triage	10	43.37	6.68	15.4	43.2	30.0 - 56.8						

NT-proBNP (pg/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	11	3626.0	1353.7	37.3	4350	918 - 6334	11	371.0	186.0	50.1	343	0 - 744
Roche cobas e 601/e 602	5	4730.5	122.3	2.6	4731	3547 - 5914	5	560.0	26.9	4.8	560	420 - 700
Siemens Dimension NT-proBNP	6	2889.7	1274.5	44.1	2317	340 - 5439	6	245.0	96.5	39.4	242	51 - 439
<u>Method</u>	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	1332.0	721.4	54.2	1038	0 - 2775	9	642.7	387.3	60.3	505	0 - 1418
Roche cobas e 601/e 602	4	-	-	-	2154	0 - 2775	4	-	-	-	1080	0 - 1418
Siemens Dimension NT-proBNP	5	921.0	165.5	18.0	921	590 - 1252	5	424.0	114.6	27.0	424	194 - 654
<u>Method</u>	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
All Method	9	36.3	20.5	56.5	31	0 - 78						
Roche cobas e 601/e 602	4	-	-	-	59	0 - 78						
Siemens Dimension NT-proBNP	5	25.0	8.5	33.9	25	8 - 42						

Troponin I (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	21.544	23.760	110.3	9.17	0.00 - 69.07	31	1.633	2.011	123.2	0.76	0.00 - 5.66
All HS Troponin I Methods	11	48.628	24.248	49.9	38.99	0.13 - 97.13	11	5.932	4.537	76.5	4.27	0.00 - 15.01
All Non-HS Troponin I Methods	21	8.198	1.782	21.7	8.52	4.63 - 11.77	21	0.622	0.185	29.8	0.59	0.25 - 1.00
Quidel Triage	13	8.685	1.735	20.0	8.78	5.21 - 12.16	13	0.503	0.121	24.1	0.49	0.26 - 0.75
Siemens Dimension	5	6.534	0.362	5.5	6.50	4.57 - 8.50	5	0.778	0.041	5.3	0.76	0.54 - 1.02
Specimen CK-8												
All Method	31	7.708	7.885	102.3	3.90	0.00 - 23.48	31	3.440	4.062	118.1	1.55	0.00 - 11.57
All HS Troponin I Methods	11	23.598	14.439	61.2	15.35	0.00 - 52.48	11	11.711	8.204	70.1	7.99	0.00 - 28.12
All Non-HS Troponin I Methods	20	3.451	0.605	17.5	3.49	2.24 - 4.67	20	1.453	0.298	20.5	1.48	0.85 - 2.05
Alere Triage	13	3.873	0.876	22.6	3.88	2.12 - 5.63	13	1.195	0.403	33.7	1.30	0.38 - 2.01
Siemens Dimension	5	3.144	0.228	7.2	3.16	2.20 - 4.09	5	1.572	0.109	6.9	1.55	1.10 - 2.05
Specimen CK-10												
All Method	30	0.136	0.142	104.0	0.06	0.00 - 0.42						
All HS Troponin I Methods	11	0.447	0.398	88.9	0.31	0.00 - 1.25						
All Non-HS Troponin I Methods	19	0.051	0.016	32.0	0.05	0.01 - 0.09						
Alere Triage	11	0.051	0.003	6.0	0.05	0.03 - 0.07						
Siemens Dimension	5	0.032	0.004	14.0	0.03	0.02 - 0.05						

Troponin T (ng/mL)

<u>Method</u>	Specimen CK-6						Specimen CK-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.3550	0.0354	2.6	1.355	0.948 - 1.762	5	0.2690	0.0113	4.2	0.269	0.188 - 0.350
Roche cobas e 601/e 602	5	1.3550	0.0354	2.6	1.355	0.948 - 1.762	5	0.2690	0.0113	4.2	0.269	0.188 - 0.350
	Specimen CK-8						Specimen CK-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.7310	0.0156	2.1	0.731	0.511 - 0.951	5	0.4470	0.0184	4.1	0.447	0.312 - 0.582
Roche cobas e 601/e 602	5	0.7310	0.0156	2.1	0.731	0.511 - 0.951	5	0.4470	0.0184	4.1	0.447	0.312 - 0.582
	Specimen CK-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.1180	0.0028	2.4	0.118	0.082 - 0.154						
Roche cobas e 601/e 602	5	0.1180	0.0028	2.4	0.118	0.082 - 0.154						

PSA (ng/mL)

<u>Method</u>	Specimen PS-3						Specimen PS-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	85	8.457	1.032	12.2	8.58	5.92 - 11.00	86	16.218	2.256	13.9	16.68	11.35 - 21.09
All TOSOH Instruments	19	7.387	0.310	4.2	7.33	5.17 - 9.61	19	13.767	0.693	5.0	13.82	9.63 - 17.90
Beckman ACCESS / 2 / Dxl	13	9.261	0.574	6.2	9.24	6.48 - 12.04	13	17.701	1.275	7.2	17.85	12.39 - 23.02
Beckman ACCESS Hybritech PSA	13	9.296	0.403	4.3	9.30	6.50 - 12.09	13	17.821	0.992	5.6	17.90	12.47 - 23.17
Siemens Dimension TPSA	13	8.315	0.499	6.0	8.40	5.82 - 10.81	13	15.784	0.995	6.3	15.51	11.04 - 20.52
TOSOH ST AIA PACK	12	7.367	0.335	4.5	7.34	5.15 - 9.58	12	13.762	0.716	5.2	13.86	9.63 - 17.90

Beta-2 microglobulin

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	1.072	0.107	10.0	1.10	0.75 - 1.40	5	2.782	0.126	4.5	2.74	2.40 - 3.17

CA 125 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	52.2	9.8	18.7	66	32 - 72	20	133.4	25.3	19.0	165	82 - 185
All TOSOH Instruments	12	73.1	2.4	3.3	73	51 - 96	12	188.8	8.7	4.6	188	132 - 246
TOSOH ST AIA PACK	10	73.1	2.4	3.3	73	51 - 96	10	188.8	8.7	4.6	188	132 - 246

CA 15-3 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	49.2	21.7	44.2	45	5 - 93	10	102.2	42.3	41.4	104	17 - 187

CA 19-9 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	58.1	22.0	37.8	50	14 - 103	10	154.3	67.0	43.4	129	20 - 289

CA 27/29 (U/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	227.6	27.1	11.9	218	159 - 296	17	613.4	85.8	14.0	614	429 - 798
All TOSOH Instruments	13	227.6	27.1	11.9	218	159 - 296	13	613.4	85.8	14.0	614	429 - 798
TOSOH ST AIA PACK	10	227.6	27.1	11.9	218	159 - 296	10	613.4	85.8	14.0	614	429 - 798

CEA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	17	12.51	1.17	9.3	14.7	8.7 - 16.3	17	36.35	2.97	8.2	41.4	25.4 - 47.3
All TOSOH Instruments	13	15.58	0.33	2.1	15.6	10.9 - 20.3	13	44.34	1.39	3.1	44.3	31.0 - 57.7
TOSOH ST AIA PACK	10	15.58	0.33	2.1	15.6	10.9 - 20.3	10	44.34	1.39	3.1	44.3	31.0 - 57.7

Free PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	10	1.953	0.380	19.5	2.06	1.05 - 2.86	10	6.496	1.069	16.5	6.89	4.54 - 8.45

PSA (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	29	1.763	0.283	16.1	1.78	0.86 - 2.67	29	5.672	1.037	18.3	5.60	3.97 - 7.38

Thyroglobulin (ng/mL)

<u>Method</u>	Specimen TM-3						Specimen TM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	14.30	5.86	41.0	16.1	2.5 - 26.1	7	47.70	13.58	28.5	53.0	20.5 - 74.9
Beckman ACCESS / 2 / Dxl	5	17.10	2.10	12.3	17.1	12.9 - 21.3	5	54.37	3.16	5.8	55.1	48.0 - 60.7

CEA (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	12	10.67	1.20	11.2	11.1	7.4 - 13.9	12	20.00	2.53	12.6	20.8	14.0 - 26.0
All TOSOH Instruments	5	11.88	0.46	3.9	12.0	8.3 - 15.5	5	22.03	0.99	4.5	22.0	15.4 - 28.7
Beckman ACCESS / 2 / Dxl	5	10.05	0.24	2.4	10.1	7.0 - 13.1	5	18.68	0.73	3.9	18.6	13.0 - 24.3

DHEA-S (µg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	14	190.93	28.25	14.8	180.8	133.6 - 248.3	14	305.04	44.95	14.7	287.2	213.5 - 396.6
Beckman ACCESS / 2 / Dxl	10	182.61	18.68	10.2	175.8	127.8 - 237.4	10	294.05	33.53	11.4	286.4	205.8 - 382.3

Estradiol (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	26	229.0	49.6	21.7	221	129 - 329	26	391.4	89.0	22.7	356	213 - 570
All TOSOH Instruments	5	309.8	21.1	6.8	308	267 - 353	5	538.6	56.0	10.4	538	426 - 651
Beckman ACCESS / 2 / Dxl	15	222.5	18.7	8.4	220	185 - 260	15	369.5	39.4	10.7	354	290 - 449

Ferritin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	33	82.9	9.3	11.3	64	58 - 108	33	136.2	15.9	11.7	109	95 - 177
All Roche Instruments	9	90.4	3.9	4.3	90	63 - 118	9	151.8	5.7	3.7	150	106 - 198
All TOSOH Instruments	19	59.9	2.7	4.6	60	41 - 78	18	103.4	4.4	4.2	105	72 - 135
Beckman ACCESS / 2 / Dxl	28	62.9	3.3	5.2	63	44 - 82	28	107.4	5.9	5.5	107	75 - 140
Siemens Dimension	10	84.3	1.9	2.2	85	59 - 110	10	138.3	4.3	3.1	138	96 - 180
TOSOH ST AIA PACK	15	60.4	2.5	4.2	61	42 - 79	15	104.2	4.1	3.9	106	72 - 136

Folate (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	2.18	0.75	34.4	2.4	1.1 - 3.2	20	4.04	1.76	43.6	5.2	2.8 - 5.3
All Roche Instruments	7	2.01	0.04	1.9	2.0	1.0 - 3.1	7	3.23	0.73	22.6	3.1	2.2 - 4.3
All Siemens Dimension Instruments	7	1.79	0.13	7.5	1.8	0.7 - 2.8	7	3.06	0.35	11.5	3.1	2.0 - 4.1
All TOSOH Instruments	8	1.49	0.56	37.8	1.4	0.4 - 2.5	8	2.74	0.47	17.3	2.7	1.7 - 3.8
Beckman ACCESS / 2 / Dxl	25	2.71	0.32	12.0	2.7	1.7 - 3.8	25	5.71	0.56	9.8	5.7	3.9 - 7.5
Siemens Dimension	5	1.76	0.15	8.6	1.8	0.7 - 2.8	5	3.02	0.41	13.5	3.1	2.0 - 4.1

FSH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	27	16.63	1.74	10.4	16.7	12.4 - 20.8	26	28.08	2.59	9.2	28.1	21.0 - 35.2
Beckman ACCESS / 2 / Dxl	14	17.20	1.27	7.4	16.8	12.9 - 21.5	13	29.33	1.89	6.4	28.9	21.9 - 36.7

Homocysteine (μmol/L)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	17.8	3.7	20.8	18	12 - 24	5	30.3	6.2	20.6	32	21 - 40

LH (mIU/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	24	19.89	2.15	10.8	19.8	15.5 - 24.2	23	36.86	4.17	11.3	36.4	28.5 - 45.2
Beckman ACCESS / 2 / Dxl	15	18.89	1.28	6.8	18.6	15.1 - 22.7	14	34.71	2.09	6.0	34.5	27.7 - 41.7

Prealbumin (mg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	2	-	-	-	12.5	Not graded	2	-	-	-	15.2	Not graded

Progesterone (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	18	14.28	3.07	21.5	12.8	9.9 - 18.6	18	24.66	4.75	19.3	22.9	17.2 - 32.1
Beckman ACCESS / 2 / Dxl	11	12.98	1.20	9.2	12.8	9.0 - 16.9	11	22.54	1.67	7.4	22.5	15.7 - 29.3

Prolactin (ng/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	21	20.24	1.97	9.7	20.1	14.1 - 26.4	20	37.92	3.38	8.9	37.2	26.5 - 49.3
Beckman ACCESS / 2 / Dxl	14	20.28	1.33	6.5	20.2	14.1 - 26.4	14	37.53	2.86	7.6	36.7	26.2 - 48.8

Testosterone (ng/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	53	572.9	104.5	18.2	527	401 - 745	53	924.4	151.4	16.4	885	647 - 1202
All Roche Instruments	5	613.6	17.9	2.9	621	429 - 798	5	976.2	41.6	4.3	997	683 - 1270
All TOSOH Instruments	12	692.4	53.3	7.7	697	484 - 901	12	1112.0	85.2	7.7	1115	778 - 1446
Abbott Architect	7	489.9	25.4	5.2	493	342 - 637	7	828.4	54.0	6.5	827	579 - 1077
Beckman ACCESS / 2 / Dxl	24	508.5	50.6	9.9	511	355 - 662	24	843.7	92.0	10.9	836	590 - 1097
TOSOH ST AIA PACK	8	688.3	59.5	8.6	688	481 - 895	8	1102.6	92.7	8.4	1074	771 - 1434

Transferrin (mg/dL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	9	122.8	9.0	7.3	124	110 - 136	9	147.8	11.4	7.7	150	133 - 163

Vitamin B₁₂ (pg/mL)

<u>Method</u>	Specimen SC-3						Specimen SC-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	76	425.9	70.7	16.6	410	298 - 554	76	747.8	116.0	15.5	743	523 - 973
All Roche Instruments	8	475.0	51.3	10.8	495	332 - 618	8	829.1	49.3	5.9	827	580 - 1078
All TOSOH Instruments	12	535.2	27.3	5.1	539	374 - 696	12	931.8	93.7	10.1	921	652 - 1212
Abbott Architect	6	459.3	21.2	4.6	458	321 - 598	6	804.7	29.6	3.7	801	563 - 1047
Beckman ACCESS / 2 / Dxl	36	367.3	29.1	7.9	367	257 - 478	37	659.0	54.7	8.3	646	461 - 857
Siemens Dimension	7	463.6	21.4	4.6	474	324 - 603	7	766.4	24.4	3.2	766	536 - 997
TOSOH AIA PACK	7	535.4	35.5	6.6	544	374 - 697	7	876.9	67.4	7.7	891	613 - 1140
TOSOH ST AIA PACK	5	534.8	12.5	2.3	538	374 - 696	5	1008.6	68.5	6.8	1023	706 - 1312

Serum Alcohol (mg/dL)

<u>Method</u>	Specimen ETH-6						Specimen ETH-7					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	184.7	17.2	9.3	192	138 - 231	5	148.0	8.7	5.9	153	111 - 185
<u>Method</u>	Specimen ETH-8						Specimen ETH-9					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	189.3	11.0	5.8	193	141 - 237	5	110.3	4.0	3.7	111	82 - 138
<u>Method</u>	Specimen ETH-10											
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>						
ALL METHODS	5	22.3	1.2	5.2	23	16 - 28						

Acetone

<u>Method</u>	Specimen ETH-6					Specimen ETH-7				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	-	-	1	10	11	11	-	-	-
Biorex Labs K-CHECK	10	-	-	-	10	10	10	-	-	-
Germaine Laboratories AimTab	1	-	-	1	-	1	1	-	-	-

<u>Method</u>	Specimen ETH-8					Specimen ETH-9				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	-	1	3	7	11	11	-	-	-
Biorex Labs K-CHECK	10	-	-	3	7	10	10	-	-	-
Germaine Laboratories AimTab	1	-	1	-	-	1	1	-	-	-

<u>Method</u>	Specimen ETH-10				
	<u>Labs</u>	<u>Negative</u>	<u>Small</u>	<u>Moderate</u>	<u>Large</u>
ALL METHODS	11	11	-	-	-
Biorex Labs K-CHECK	10	10	-	-	-
Germaine Laboratories AimTab	1	1	-	-	-

Thyroglobulin Antibody (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	16	817.538	315.223	38.6	923.50	0.00 - 1763.21	17	5.765	8.308	144.1	0.10	0.00 - 30.69
Beckman ACCESS / 2 / Dxl	10	1091.850	94.964	8.7	1091.20	806.95 - 1376.75	10	0.063	0.074	119.0	0.05	0.00 - 0.29

Thyroid Peroxidase Antibody (TPO) (IU/mL)

<u>Method</u>	Specimen THY-3						Specimen THY-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	20	126.735	46.618	36.8	117.80	0.00 - 266.60	22	4.780	8.963	187.5	0.00	0.00 - 31.67
Beckman ACCESS / 2 / Dxl	12	114.617	8.517	7.4	111.40	89.06 - 140.17	11	0.000	0.001	0.0	0.00	0.00 - 0.01

Ammonia (µmol/L)

<u>Method</u>	Specimen AMM-3						Specimen AMM-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	46.0	8.5	18.4	46	29 - 63	5	169.5	3.5	2.1	170	161 - 178
Siemens Dimension	5	46.0	8.5	18.4	46	29 - 63	5	169.5	3.5	2.1	170	161 - 178

Adulterated Urine – Specific Gravity

<u>Method</u>	Specimen AUR-3						Specimen AUR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	1.0240	0.0085	0.8	1.025	1.014 - 1.034	5	1.0023	0.0024	0.2	1.002	0.992 - 1.013

Adulterated Urine – Specific Gravity Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	5	-	5	1	4
Carolina Chemistries BiOlis	2	2	-	2	-	2
McKesson Drug Panel	2	2	-	2	-	2
USDiagnosics UScreen Cup	1	1	-	1	1	-

Adulterated Urine – pH

<u>Method</u>	Specimen AUR-3						Specimen AUR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
ALL METHODS	5	5.35	0.49	9.3	5.4	4.3 - 6.4	5	4.80	1.13	23.6	4.8	3.8 - 5.8

Adulterated Urine – pH Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	5	-	5	5	-
Carolina Chemistries BiOlis	2	2	-	2	2	-
Indiko Plus	1	1	-	1	1	-
McKesson Drug Panel	1	1	-	1	1	-
USDiagnosics UScreen Cup	1	1	-	1	1	-

Adulterated Urine – Creatinine (mg/dL)

<u>Method</u>	Specimen AUR-3						Specimen AUR-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	0.50	0.71	141.4	0.5	0.0 - 3.5	5	7.75	0.35	4.6	7.8	4.7 - 10.8
Beckman AU	5	0.50	0.71	141.4	0.5	0.0 - 3.5	5	7.75	0.35	4.6	7.8	4.7 - 10.8

Adulterated Urine – Creatinine Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	5	1	4	5	1	4
Beckman AU	1	1	-	1	-	1
Carolina Chemistries BiOlis	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
USDiagnosics UScreen Cup	1	-	1	1	1	-

Adulterated Urine – Nitrite Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>	<u>Labs</u>	<u>Normal</u>	<u>Abnormal</u>
ALL METHODS	1	1	-	1	-	1

Adulterated Urine – Oxidants Interpretation

<u>Method</u>	Specimen AUR-3			Specimen AUR-4		
	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>	<u>Labs</u>	<u>Negative/ Normal</u>	<u>Positive/ Abnormal</u>
ALL METHODS	2	2	-	2	-	2
Beckman AU	1	1	-	1	-	1
McKesson Drug Panel	1	1	-	1	-	1

Ethyl Glucuronide (EtG) (ng/mL)

<u>Method</u>	Specimen ETG-3			Specimen ETG-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	4	1	5	-	5
Cut-off 500						
Beckman AU	5	4	1	5	-	5
All Cut-off 500	5	4	1	5	-	5

Urine Drug Screen

Acetaminophen (µg/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Amphetamines (ng/mL)

<u>Method</u>	<u>Specimen UDS-3</u>			<u>Specimen UDS-4</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	90	-	90	90	89	1
Cut-off 300						
Beckman AU	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-
Cut-off 500						
Alere iCup	1	-	1	1	1	-
Beckman AU	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Indiko Plus	2	-	2	2	2	-
MEDTOX Diagnostics	4	-	4	4	4	-
Microgenics DRI	1	-	1	1	1	-
Mindray BS-200/BS-480	1	-	1	1	1	-
Noble Medical Inc.	2	-	2	2	2	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Siemens Dimension	1	-	1	1	1	-
Synermed IR 500	1	-	1	1	1	-
All Cut-off 500	20	-	20	20	20	-
Cut-off 1000						
Alere iCassette	3	-	3	3	3	-
Alere iCup	2	-	2	2	1	1
Alere iScreen	15	-	15	15	15	-
Beckman AU	2	-	2	2	2	-
BMC QuickTox Drug Screen	3	-	3	3	3	-
Carolina Chemistries BioLis 24i	2	-	2	2	2	-
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	1	-
CLIAwaived, Inc. Drug Test	2	-	2	2	2	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	7	-	7	7	7	-
Germaine Laboratories AimScreen	1	-	1	1	1	-
Jant Accutest MultiDrug Screen	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	7	-	7	7	7	-
Microgenics DRI	5	-	5	5	5	-
Noble Medical Inc.	2	-	2	2	2	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
Roche cobas 6000 / c 501	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
Siemens Viva-E	1	-	1	1	1	-
USDiagnosics One Step Multi-Drug	2	-	2	2	2	-
USDiagnosics UScreen Cup	5	-	5	5	5	-
All Cut-off 1000	67	-	67	67	66	1

Amphetamines/Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	11	-	11	11	11	-
Cut-off 300						
Roche Integra	1	-	1	1	1	-
All Cut-off 300	1	-	1	1	1	-
Cut-off 500						
Beckman AU	1	-	1	1	1	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
MEDTOX Diagnostics	1	-	1	1	1	-
All Cut-off 500	5	-	5	5	5	-
Cut-off 1000						
Abbott Architect	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Microgenics DRI	1	-	1	1	1	-
Siemens EMIT II Plus	1	-	1	1	1	-
All Cut-off 1000	4	-	4	4	4	-

Barbiturates (ng/mL)

<u>Method</u>	<u>Specimen UDS-3</u>			<u>Specimen UDS-4</u>		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	76	-	76	77	-	77
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	3	-	3	3	-	3
Roche Integra	2	-	2	2	-	2
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	23	-	23	23	-	23
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	3	-	3	4	-	4
Alere iScreen	15	-	15	15	-	15
BMC QuickTox Drug Screen	3	-	3	3	-	3
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	1	-	1	1	-	1
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 300	52	-	52	53	-	53

Benzodiazepines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	97	-	97	97	1	96
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Immunalysis	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 150	5	-	5	5	-	5
Cut-off 200						
Abbott Architect	1	-	1	1	-	1
Beckman AU	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Confirm Biosciences DoA Test	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200/BS-480	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
All Cut-off 200	22	-	22	22	-	22
Cut-off 300						
Alere iCassette	3	-	3	3	-	3
Alere iCup	3	-	3	3	1	2
Alere iScreen	16	-	16	16	-	16
Alfa Scientific Instant-View	3	-	3	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
CLIAwaived, Inc. Drug Test	6	-	6	6	-	6
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	8	-	8	8	-	8
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics CEDIA	1	-	1	1	-	1
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 300	66	-	66	66	1	65

Buprenorphine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	38	37	1	38	-	38
Cut-off 5						
Beckman AU	2	2	-	2	-	2
Confirm Biosciences DoA Test	1	1	-	1	-	1
Immunalysis	1	1	-	1	-	1
Indiko Plus	2	2	-	2	-	2
Microgenics CEDIA	3	3	-	3	-	3
Microgenics DRI	1	1	-	1	-	1
Siemens EMIT II Plus	2	2	-	2	-	2
Synermed IR 500	1	1	-	1	-	1
All Cut-off 5	13	13	-	13	-	13
Cut-off 10						
Chemtron Biotech	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	5	5	-	5	-	5
Confirm Biosciences DoA Test	1	1	-	1	-	1
First Sign Drugs of Abuse	1	1	-	1	-	1
Jant Accutest MultiDrug Screen	1	1	-	1	-	1
McKesson Drug Panel	3	3	-	3	-	3
MEDTOX Diagnostics	2	1	1	2	-	2
Noble Medical Inc.	2	2	-	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	2	-	2	-	2
USDiagnostics One Step Multi-Drug	1	1	-	1	-	1
USDiagnostics UScreen Cup	4	4	-	4	-	4
All Cut-off 10	23	22	1	23	-	23
Cut-off 20						
Microgenics CEDIA	2	2	-	2	-	2
All Cut-off 20	2	2	-	2	-	2

Cannabinoids (THC) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	93	-	93	93	-	93
Cut-off 20						
Roche Integra	1	-	1	1	-	1
All Cut-off 20	1	-	1	1	-	1
Cut-off 50						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	4	-	4	4	-	4
Alere iScreen	15	-	15	15	-	15
Alfa Scientific Instant-View	9	-	9	9	-	9
Beckman AU	4	-	4	4	-	4
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	2	-	2	2	-	2
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	4	-	4	4	-	4
Indiko Plus	2	-	2	2	-	2
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	6	-	6	6	-	6
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	4	-	4	4	-	4
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 50	91	-	91	91	-	91
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Carisoprodol (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	-	1
Cut-off 100						
Immunalysis	1	1	-	1	-	1
All Cut-off 100	1	1	-	1	-	1

Cocaine Metabolites (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	111	-	111	111	-	111
Cut-off 50						
First Sign Drugs of Abuse	2	-	2	2	-	2
All Cut-off 50	2	-	2	2	-	2
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
All Cut-off 100	2	-	2	2	-	2
Cut-off 150						
Alere iCup	1	-	1	1	-	1
Beckman AU	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	2	-	2	2	-	2
Indiko Plus	1	-	1	1	-	1
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens Dimension	1	-	1	1	-	1
Synermed IR 500	1	-	1	1	-	1
All Cut-off 150	23	-	23	23	-	23
Cut-off 300						
Abbott Architect	1	-	1	1	-	1

Cocaine Metabolites (ng/mL) (cont'd)

	Specimen UDS-3			Specimen UDS-4		
Alere iCassette	3	-	3	3	-	3
Alere iCup	3	-	3	3	-	3
Alere iScreen	15	-	15	15	-	15
Alfa Scientific Instant-View	9	-	9	9	-	9
Beckman AU	2	-	2	2	-	2
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	2	-	2	2	-	2
Confirm Biosciences DoA Test	1	-	1	1	-	1
First Sign Drugs of Abuse	5	-	5	5	-	5
Germaine Laboratories AimScreen	4	-	4	4	-	4
Indiko Plus	2	-	2	2	-	2
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	6	-	6	6	-	6
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
USDiagnosics One Step Multi-Drug	2	-	2	2	-	2
USDiagnosics UScreen Cup	5	-	5	5	-	5
All Cut-off 300	83	-	83	83	-	83

Cotinine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

EDDP (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	3	-	3	3	-	3
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 150	1	-	1	1	-	1
Cut-off 300						
Immunalysis	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

Ethanol (Alcohol) (mg/dL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	11	-	11	11	-	11
Cut-off 10						
Abbott Architect	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 10	2	-	2	2	-	2
Cut-off 20						
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 20	2	-	2	2	-	2
Cut-off 40						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 40	1	-	1	1	-	1
Cut-off 100						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Microgenics DRI	4	-	4	4	-	4
All Cut-off 100	6	-	6	6	-	6

Fentanyl (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	5	-	5	5	5	-
Cut-off 2						
Immunalysis	1	-	1	1	1	-
Indiko Plus	1	-	1	1	1	-
Microgenics DRI	3	-	3	3	3	-
All Cut-off 2	5	-	5	5	5	-

Hydrocodone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

LSD (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

MDMA (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	51	-	51	52	51	1
Cut-off 100						
First Sign Drugs of Abuse	1	-	1	1	1	-
All Cut-off 100	1	-	1	1	1	-
Cut-off 500						
Alere iCup	3	-	3	4	3	1
Alere iScreen	15	-	15	15	15	-
Beckman AU	1	-	1	1	1	-
BMC QuickTox Drug Screen	3	-	3	3	3	-
CLIAwaived, Inc. Drug Test	5	-	5	5	5	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
Jant Accutest MultiDrug Screen	1	-	1	1	1	-
McKesson Consult Drug Panel	1	-	1	1	1	-
McKesson Drug Panel	7	-	7	7	7	-
Microgenics DRI	1	-	1	1	1	-
Noble Medical Inc.	2	-	2	2	2	-
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	2	-
Siemens EMIT II Plus	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	5	-	5	5	5	-
All Cut-off 500	50	-	50	51	50	1

Meperidine (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methadone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	77	-	77	78	-	78
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1
Cut-off 150						
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 150	1	-	1	1	-	1
Cut-off 200						
MEDTOX Diagnostics	4	-	4	4	-	4
All Cut-off 200	4	-	4	4	-	4
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	3	-	3	4	-	4
Alere iScreen	15	-	15	15	-	15
Beckman AU	2	-	2	2	-	2
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	2	-	2	2	-	2
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
Microgenics DRI	7	-	7	7	-	7
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	1	-	1	1	-	1
Siemens EMIT II Plus	2	-	2	2	-	2
Synermed IR 500	1	-	1	1	-	1
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	4	-	4	4	-	4
All Cut-off 300	70	-	70	71	-	71
Cut-off 1000						
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
All Cut-off 1000	1	-	1	1	-	1

Methamphetamines (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	68	-	68	68	66	2
Cut-off 500						
Alere iCup	1	-	1	1	1	-
Alere iScreen	15	-	15	15	15	-
Beckman AU	1	-	1	1	1	-
BMC QuickTox Drug Screen	3	-	3	3	3	-
CLIAwaived, Inc. Drug Test	4	-	4	4	4	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	1	-	1	1	1	-
Lin-Zhi International	1	-	1	1	1	-
MEDTOX Diagnostics	4	-	4	4	4	-
Noble Medical Inc.	2	-	2	2	2	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
All Cut-off 500	34	-	34	34	34	-
Cut-off 1000						
Alere iCassette	3	-	3	3	3	-
Alere iCup	3	-	3	3	3	-
Alfa Scientific Instant-View	3	-	3	3	3	-
CLIAwaived, Inc. Drug Test	1	-	1	1	1	-
Confirm Biosciences DoA Test	1	-	1	1	1	-
First Sign Drugs of Abuse	5	-	5	5	4	1
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	2	-	2	2	2	-
McKesson Drug Panel	6	-	6	6	6	-
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	1	-
USDiagnostics One Step Multi-Drug	2	-	2	2	2	-
USDiagnostics UScreen Cup	5	-	5	5	5	-
All Cut-off 1000	34	-	34	34	32	2

Methanol (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1

Methaqualone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 300						
Microgenics DRI	1	-	1	1	-	1
All Cut-off 300	1	-	1	1	-	1

6-MAM (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	7	7	-	7	-	7
Cut-off 10						
Beckman AU	1	1	-	1	-	1
First Sign Drugs of Abuse	1	1	-	1	-	1
Indiko Plus	1	1	-	1	-	1
Microgenics CEDIA	3	3	-	3	-	3
Siemens Viva-E	1	1	-	1	-	1
All Cut-off 10	7	7	-	7	-	7

Opiates (Morphine Trihydrate) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	111	-	111	111	1	110
Cut-off 100						
Beckman AU	1	-	1	1	-	1
Lin-Zhi International	1	-	1	1	-	1
MEDTOX Diagnostics	2	-	2	2	-	2
All Cut-off 100	4	-	4	4	-	4
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCup	2	-	2	2	-	2
Alere iScreen	16	-	16	16	-	16
Alfa Scientific Instant-View	2	-	2	2	-	2
Beckman AU	3	-	3	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	2	-	2	2	-	2
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	2	-	2	2	-	2
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	3	-	3	3	-	3
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	5	-	5	5	1	4
Microgenics DRI	7	-	7	7	-	7
Mindray BS-200/BS-480	1	-	1	1	-	1
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1

Opiates (Morphine Trihydrate) (ng/mL) (cont'd)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens Dimension	1	-	1	1	-	1
Siemens EMIT II Plus	3	-	3	3	-	3
Synermed IR 500	1	-	1	1	-	1
USDiagnositics One Step Multi-Drug	1	-	1	1	-	1
USDiagnositics UScreen Cup	5	-	5	5	-	5
All Cut-off 300	71	-	71	71	1	70
Cut-off 2000						
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alfa Scientific Instant-View	7	-	7	7	-	7
Beckman AU	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	1	-	1	1	-	1
First Sign Drugs of Abuse	7	-	7	7	-	7
Germaine Laboratories AimScreen	4	-	4	4	-	4
McKesson Drug Panel	1	-	1	1	-	1
MEDTOX Diagnostics	2	-	2	2	-	2
Microgenics DRI	1	-	1	1	-	1
Noble Medical Inc.	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	1	-	1	1	-	1
USDiagnositics One Step Multi-Drug	1	-	1	1	-	1
All Cut-off 2000	35	-	35	35	-	35

Oxycodone (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	75	-	75	76	1	75
Cut-off 100						
Alere iCassette	1	-	1	1	-	1
Alere iCup	3	-	3	4	1	3
Alere iScreen	16	-	16	16	-	16
Beckman AU	3	-	3	3	-	3
BMC QuickTox Drug Screen	3	-	3	3	-	3
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	5	-	5	5	-	5
Confirm Biosciences DoA Test	2	-	2	2	-	2
First Sign Drugs of Abuse	1	-	1	1	-	1
Immunalysis	1	-	1	1	-	1
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	7	-	7	7	-	7
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	4	-	4	4	-	4
Noble Medical Inc.	2	-	2	2	-	2
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Roche cobas 6000 / c 501	1	-	1	1	-	1
Roche Integra	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	1	-	1	1	-	1
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 100	69	-	69	70	1	69
Cut-off 300						
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Indiko Plus	2	-	2	2	-	2
Microgenics DRI	3	-	3	3	-	3
All Cut-off 300	6	-	6	6	-	6

Phencyclidine (PCP) (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	68	-	68	68	-	68
Cut-off 25						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	3	-	3	3	-	3
Alere iCup	2	-	2	2	-	2
Alere iScreen	14	-	14	14	-	14
Beckman AU	3	-	3	3	-	3
BMC QuickTox Drug Screen	4	-	4	4	-	4
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
Clarity Diagnostics Urine Panels/Cassettes	1	-	1	1	-	1
CLIAwaived, Inc. Drug Test	4	-	4	4	-	4
Confirm Biosciences DoA Test	2	-	2	2	-	2
First Sign Drugs of Abuse	1	-	1	1	-	1
Germaine Laboratories AimScreen	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
Jant Accutest MultiDrug Screen	1	-	1	1	-	1
McKesson Consult Drug Panel	1	-	1	1	-	1
McKesson Drug Panel	6	-	6	6	-	6
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	2	-	2	2	-	2
Noble Medical Inc.	3	-	3	3	-	3
Premier Biotech Bio-Cup/Bio-Dip	2	-	2	2	-	2
Siemens EMIT II Plus	2	-	2	2	-	2
USDiagnostics One Step Multi-Drug	2	-	2	2	-	2
USDiagnostics UScreen Cup	5	-	5	5	-	5
All Cut-off 25	67	-	67	67	-	67
Cut-off 100						
Beckman AU	1	-	1	1	-	1
All Cut-off 100	1	-	1	1	-	1

Propoxyphene (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	15	-	15	15	-	15
Cut-off 300						
Abbott Architect	1	-	1	1	-	1
Alere iCassette	1	-	1	1	-	1
Beckman AU	1	-	1	1	-	1
Carolina Chemistries BioLis 24i	1	-	1	1	-	1
First Sign Drugs of Abuse	1	-	1	1	-	1
Indiko Plus	1	-	1	1	-	1
McKesson Drug Panel	3	-	3	3	-	3
MEDTOX Diagnostics	4	-	4	4	-	4
Microgenics DRI	1	-	1	1	-	1
Siemens EMIT II Plus	1	-	1	1	-	1
All Cut-off 300	15	-	15	15	-	15

Tramadol (ng/mL)

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	-	1	1	-	1
Cut-off 200						
Immunalysis	1	-	1	1	-	1
All Cut-off 200	1	-	1	1	-	1

Tricyclic Antidepressants (ng/mL)

<u>Method</u>	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	22	21	1	22	-	22
Cut-off 300						
MEDTOX Diagnostics	4	4	-	4	-	4
All Cut-off 300	4	4	-	4	-	4
Cut-off 1000						
Alere iCassette	1	1	-	1	-	1
Alere iCup	1	1	-	1	-	1
CLIAwaived, Inc. Drug Test	4	4	-	4	-	4
First Sign Drugs of Abuse	1	1	-	1	-	1
Jant Accutest MultiDrug Screen	1	1	-	1	-	1
McKesson Consult Drug Panel	1	1	-	1	-	1
McKesson Drug Panel	6	6	-	6	-	6
Noble Medical Inc.	1	-	1	1	-	1
Premier Biotech Bio-Cup/Bio-Dip	1	1	-	1	-	1
USDiagnosics UScreen Cup	1	1	-	1	-	1
All Cut-off 1000	18	17	1	18	-	18

Zolpidem (mg/dL)

	Specimen UDS-3			Specimen UDS-4		
	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>	<u>Labs</u>	<u>Positive</u>	<u>Negative</u>
All Methods	1	1	-	1	-	1

Urine Amylase (U/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	262	Not graded	1	-	-	-	184	Not graded

Urine Calcium (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	4.4	Not graded	1	-	-	-	6.7	Not graded

Urine Chloride (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	243	Not graded	1	-	-	-	163	Not graded

Urine Creatinine (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	7	174.73	9.47	5.4	179.5	145.0 - 204.5	7	120.90	6.92	5.7	124.4	100.3 - 141.5

Urine Glucose (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	272	Not graded	1	-	-	-	149	Not graded

Urine Magnesium (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	8.9	Not graded	1	-	-	-	6.1	Not graded

Urine Osmolality (mOsm/kg)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	849	Not graded	1	-	-	-	628	Not graded

Urine Phosphorus (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	58	Not graded	1	-	-	-	36	Not graded

Urine Potassium (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	96	Not graded	1	-	-	-	64	Not graded

Urine Sodium (mmol/L)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	187	Not graded	1	-	-	-	134	Not graded

Urine Total Protein (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	5	89.36	2.28	2.6	88.4	50.0 - 128.7	5	48.36	0.98	2.0	48.7	27.0 - 69.7

Urine Urea Nitrogen (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	691	Not graded	1	-	-	-	542	Not graded

Urine Uric Acid (mg/dL)

<u>Method</u>	Specimen UCH-3						Specimen UCH-4					
	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>	<u>Labs</u>	<u>Mean</u>	<u>SD</u>	<u>CV</u>	<u>Median</u>	<u>Range</u>
All Method	1	-	-	-	8.9	Not graded	1	-	-	-	7.0	Not graded

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